



IMPERIAL INSTITUTE
OF
AGRICULTURAL RESEARCH, PUSA.

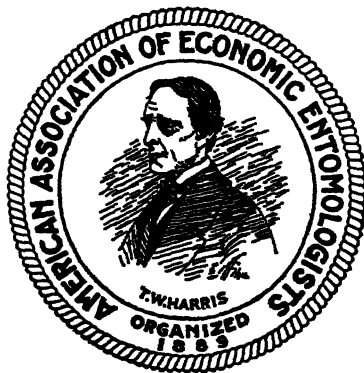
INDEX V TO THE LITERATURE OF
AMERICAN ECONOMIC ENTOMOLOGY

INDEX V
TO THE
LITERATURE
OF
AMERICAN ECONOMIC
ENTOMOLOGY

January 1, 1930 to December 31, 1934

Compiled by
MABEL COLCORD

Edited by
E. PORTER FELT



162337

AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS
COLLEGE PARK, MD.

1938

INTRODUCTORY

This is a continuation of Indexes I to IV of American Economic Entomology, a series continuing the earlier bibliographies by Samuel Henshaw and Nathan Banks. The preceding Indexes were prepared with the cooperation of Dr. L. O. Howard and Dr. C. L. Marlatt, Chiefs of the Bureau of Entomology during the periods of their preparation. This Index has been made possible by the cooperation of Mr. Lee A. Strong, Chief of the Bureau of Entomology and Plant Quarantine, United States Department of Agriculture, who kindly detailed Miss Mabel Colcord, Librarian of the Bureau to have charge of the preparation of the manuscript. To her and her assistants as well as to Mr. Strong the Economic Entomologists of the World are indebted for the compilation of this work.

The Index when turned over to the Editor, September 20, 1937, comprised 2950 manuscript pages which would have made approximately 700 printed pages. It was necessary as in preceding Indexes to reduce the size of the volume without seriously impairing its value. The immense number of references made it impracticable to consult every citation and there are doubtless errors of both inclusion and exclusion. There has been a consolidation of references in cases where papers contained notices of many species, especially those of presumably minor economic importance.

The scope of the Index has been extended somewhat to comprise publications from continental North America, including Alaska, Canada, Mexico and the Panama Canal Zone, and in addition Cuba, Puerto Rico, Hawaii, Guam, and some from the Philippines. Only the better established or well known common names of insects have been retained. Those approved by the Committee on Nomenclature of the American Association of Economic Entomologists have been starred(*). Anonymous articles in the Agricultural Press have been largely excluded and all in Farm papers under headings with numerous citations. The omission of such literature is indicated by a double dagger (‡), and in some cases citations of official press bulletins or circulars, the more ephemeral literature, have been omitted.

The nature of general works is so well indicated in the title that only a few of the more important subdivisions have been indexed.

The publication of this work was authorized by the American Association of Economic Entomologists (See *Journal of Economic Entomology*, 28: 22-23, 1935) and subsequently by action of the Executive Committee in agreement with the Editorial Board the undersigned was appointed to edit and carry the Index through the press.

E. P. FELT,
Editor

INDEX V TO THE LITERATURE OF AMERICAN ECONOMIC ENTOMOLOGY

JANUARY 1, 1930 TO DECEMBER 31, 1934

Compiled by MABEL COLCORD

The following Index to the Literature of American Economic Entomology for the five-year period January 1, 1930 to December 31, 1934, inclusive, is a continuation of the Banks' Index, 1905-1914, and of the Colcord Indexes, 1915-1929. All of these are modified extensions of the Bibliography of American Economic Entomology, published by the U.S. Department of Agriculture, Division of Entomology (now the Bureau of Entomology and Plant Quarantine), 1889-1905, Pts. I-V by Samuel Henshaw, Pts. VI-VIII, by Nathan Banks.

The plan of the previous indexes has been closely followed. Scientific names of insects and other headings are arranged alphabetically; references are alphabetic by author under the insect name and chronologic under each author. Practically all anonymous articles have been omitted; all mimeographed material has been omitted and also all authorities for insect names except in a few cases where the authority is necessary for identification. In the present Index we have for the first time included references to Puerto Rican and Hawaiian publications. Its scope is the literature of continental North America, including Alaska, Canada, Mexico and the Panama Canal Zone and in addition to those already listed, Cuba, Guam and some Philippine publications.

The references have been made as short as possible and should be readily intelligible after reading the following explanation and referring, when necessary, to the list of abbreviations.

"B" indicates bulletin, "C" circular, "R" report, "PB" press bulletin, "TB" technical bulletin, and "M" memoir. Publications of the various agricultural experiment stations are referred to simply by State abbreviation and number of bulletin, circular or report—e.g., "Fla. B. 241" means Florida Agricultural Experiment Station Bulletin 241. "Fla. Ext. B. 59" means Florida Agricultural Experiment Station Extension Bulletin 59. The New York Cornell Agricultural Experiment Station bulletins are referred to as N.Y. (C) B, the New York Geneva Agricultural Experiment Station bulletins as N.Y. (Gen.) B. The bulletins of the United States Department of Agriculture are "USDA B," the Yearbook articles are "USDA YB," the Farmers' Bulletins are "USDA FB," the Proceedings of the U.S. National Museum have been abbreviated "PUSNM," and the Bulletins of the American Museum of Natural History of New York, "BAMNH."

"P" is used for proceedings, "J" for journal. The words "State" and "annual" are usually omitted in the references, although in a few instances "St." (State) is retained to avoid possible confusion. The form of reference is that now in general use in scientific publications.

The first figure after "B," "R", etc., indicates the number of the volume, if a periodical or of the bulletin or report. The number in parentheses is the number in the volume, and the number following the colon is the page—e.g., "Adams, Amer. Fr. Grow. Mag. 51(2): 3, 1931," indicates an article by Adams in the American Fruit Growers Magazine, vol. 51, no. 2, page 3, published in 1931.

Marginal letters or symbols have the following significance: "n" indicates that the species described is new; a double dagger in parentheses, (‡), preceding the name of the insect means that some of the presumably less important references have been deleted by the editor; "i" indicates that the article is illustrated, "b" that the article contains a bibliography. Starred (*) common names are those approved by the Committee on Nomenclature of the American Association of Economic Entomologists.

The year of publication has been added to all references as it is frequently of great assistance in determining the article wanted. "N.J. R 1930" might mean either the New Jersey Agricultural Experiment Station Report for 1930 published in 1931, or the Report for 1929 published in 1930. If it reads "N.J. R. f. 1930" there can be no mistake and if 1931 is added, at the end of the reference, the date of actual publication is beyond doubt.

In indexing the monograph of a family, we have made one reference to the whole family under its name and indexed only the new species appearing in it, unless information was given on the life history, habits or control of the species.

In questions of synonymy, standard catalogues have been followed; for example, Leng for Coleoptera, Barnes for Lepidoptera, Aldrich and Curran for Diptera, Van Duzee for Hemiptera, etc. etc. Our systematists at the U.S. National Museum have very kindly determined the more difficult questions of synonymy for

Coleoptera, Dr. E. A. Chapin, Messrs. L. L. Buchanan, W. S. Fisher, H. S. Barber. Lepidoptera, Messrs. Carl Heinrich, August Busck, J. F. Gates Clarke.

Hemiptera, Drs. Harold Morrison (Coccidae), P. W. Mason (Aphididae), Messrs. H. G. Barber (Heteroptera), P. W. Oman (Homoptera).

Orthoptera and Neuroptera, Mr. A. B. Gurney.

Acarina, Mallophaga, Anoplura, Siphonaptera, Dr. H. E. Ewing.

Diptera, Dr. Alan Stone, Messrs. C. T. Greene, D. G. Hall.

Hymenoptera, Messrs. A. B. Gahan, R. A. Cushman, C. F. W. Muesebeck, Miss Grace A. Sandhouse.

As for the earlier Indexes, so for this, all divisions of the Bureau have given helpful suggestions as to matter to be included and as to arrangement. We are especially indebted to Mr. D. L. Van Dine, Dr. B. A. Porter, Dr. P. N. Annand, Mr. W. R. Walton, Mr. J. S. Wade, Dr. F. C. Craighead, Dr. M. W. Blackman, Mr. William Middleton, Mr. W. H. White, Mr. D. J. Caffrey, Dr. F. C. Bishopp, Mr. J. L. Webb, Dr. E. A. Back, Dr. S. B. Fracker, Mr. S. A. Rohwer, Mr. E. R. Sasser, Mr. B. M. Gaddis, Mr. R. W. Harned, Mr. U. C. Loftin, Dr. N. E. McIndoo, Mr. J. I. Hambleton, Mr. R. E. Snodgrass, Mr. C. P. Clausen, Dr. L. A. Hawkins, Dr. C. M. Smith, Mr. R. P. Currie, Mr. J. A. Hyslop. Mr. C. F. W. Muesebeck helped in many difficult decisions. Mr. Lee A. Strong made it possible for us to have adequate assistance for compiling the Index, and Mr. F. H. Spencer arranged for the copying of the manuscript. The greater part of the actual indexing was done by Miss M. G. Beckwith and her two able assistants, Miss Ruth Taylor and Miss Claire Hirschfield. For their unfailing and unstinted service our thanks are especially due. Miss C. R. Barnett, Librarian of the U.S. Department of Agriculture, again gave most helpful cooperation in making available material to be indexed. To the two members of our own Bureau Library staff, Miss I. L. Hawes and Miss A. J. Carabelli, our thanks are again due, for their interest and fine cooperation throughout the long period of compilation.

BOOKS INDEXED AS A WHOLE OR ONLY THEIR MORE IMPORTANT SUBDIVISIONS

Bailey, L. H. Cultivated conifers in North America. 1933.

Bailey, Vernon. Cave life in Kentucky. 1933.

Beard, Dan. American boys' book of bugs. 1932.

Boyd, M. F. An introduction to malariology. 1930.

Bradley, J. C. A laboratory guide to the study of the wings of insects. 1931.

Britton, W. E. Mosquito problem of Connecticut and how to solve it. 1930.

Bruce, E. L., Co., Memphis, Tenn. Protection^m to forest products against attack by termites and rot fungi. 1931.

Bruce, C. T. Classification of insects. 1932.

- Carter, H. R. Yellow fever, 1931.
- Cecil, R. L. Text-book of medicine. Ed. 3, rev. 1934.
- Chamberlin, W. J. Introduction to forest entomology. 1931.
- Chapman, R. N. Animal ecology. 1931.
- Claassen, P. W. Plecoptera nymphs of America (North of Mexico). 1931.
- Claiborne, Elizabeth. Manual of gardening. 1932.
- Comstock, A. B. Handbook of nature study. Ed. 22. 1931.
- Comstock, J. H., Comstock, A. B. and Herrick, G. W. A manual for the study of insects. Ed. 19. 1930.
- Curran, C. H. The families and genera of North America Diptera. 1934.
- Doane, R. W. Common pests. 1931.
- Essig, E. O. A history of entomology. 1931.
- Felt, E. P. and Rankin, W. H. Insects and diseases of ornamental trees and shrubs. 1932.
- Fernald, H. T. The North American and West Indian digger wasps of the genus *Sphex*. 1934.
- Flint, W. P. and Metcalf, C. L. Insects, man's chief competitors. 1932.
- Folsom, J. W. Entomology, with special reference to its ecological aspects. Ed. 4. 1934.
- Gager, C. S. The plant world. 1934.
- Gnadinger, C. B. Pyrethrum flowers. 1933.
- Guyer, M. F. Animal biology. 1931.
- Heald, F. D. Manual of plant diseases. Ed. 2. 1933.
- Hegner, Robert and Andrews, Justin, ed. Problems and methods of research in protozoology. 1930.
- Hoffman, F. L. Malaria in Mississippi. 1932.
- Hottes, A. C. The book of trees. 1932.
- Howard, L. O. Fighting the insects. 1933.
- Howard, L. O. A history of applied entomology. 1930.
- Howard, L. O. The insect menace. 1931.
- Kinsey, A. C. The Gall Wasp Genus *Cynips*. 1930.
- Kligler, I. J. The epidemiology and control of malaria in Palestine. 1930.
- Klots, A. B. Directions for collecting and preserving insects. [c. 1932.]
- Kofoid, C. A. Termites and their control. 1934.
- Matheson, Robert. Medical entomology. 1932.
- Metcalf, C. L., and Flint, W. P. Fundamentals of insect life. Ed. 1. 1932.
- Mexico. Agricultura y fomento. Principales plagas y enfermedades. 1930.
- Mills, H. B. A monograph of the Collembola of Iowa. 1934.
- Morgan, Anne. Fieldbook of ponds and stream. 1930.
- Ormsby, O. S. Practical treatise of diseases of the skin. Ed. 4. 1934.
- Peirson, H. B. Field book of destructive forest insects. Ed. 2. 1932.
- Pellett, F. C. American honey plants. Ed. 3, rev. 1930.
- Peterson, Alvah. A manual of entomological equipment and methods. Pt. 1. 1934.
- Plath, O. E. Bumblebees and their ways. 1934.
- Powers, Margaret. World of insects. 1931.
- Riley, W. A., and Johannsen, O. A. Medical entomology. 1932.
- Sanderson, E. D. Insect pests of farm, garden and orchard. Ed. 3. 1931.
- Schmidt, C. O. Nature study and agriculture. Rev. ed. 1933.
- Schnack, Friedrich. Life of the butterfly. 1932.
- Step. Edward. Bees, wasps, ants of the British Isles. 1932.
- Stoddard, H. L. The bobwhite quail. 1931.
- Sturtevant, A. H. and Dobzhansky, T. Contributions to the genetics of certain chromosome anomalies in *Drosophila melanogaster*. 1931.
- Waterman, C. E. *Apiatia*; Little essays on honey-makers. 1933.

- Weber, G. A. The Bureau of Entomology; its history, activities and organization. 1930.
- Weber, G. A. The Plant Quarantine and Control Administration. 1930.
- Weed, C. M. Insect ways. 1930.
- Wheeler, W. M. Colony founding among the ants. 1933.
- Wheeler, W. M. Demons of the dust. 1930.
- Williams, F. X. Handbook of insects and other invertebrates of Hawaiian sugar cane fields. 1931.
- Wilson, Andrew. Insects and their control. Rev. ed. 1931.
- Wolcott, G. N. An economic entomology of the West Indies. 1933.

LIST OF ABBREVIATIONS

Acad. = Academy	Exch. = Exchange
Adm. = Administrative	Exp. = Experimental
Adv. = Advancement	Exterm. = Extermination
Advoc. = Advocate	Farm. = Farmer
Agr. = Agriculture, Agriculturist, Agri- cultural	Fed. = Federal
Am. or Amer. = American	Fert. = Fertilizer
Ann. = Annals, Annual	Flor. = Florist
App. = Appendix	For. = Forestry
Archiv. = Archives	Fr. = Fruit
Assoc. = Association	Fumig. = Fumigation
B. = Bulletin	Fung. = Fungicide
B.C. = British Columbia	Gard. = Gardeners, Gardening
Bank. = Banker	Gaz. = Gazette
Bd. = Board	Gen. = General
Bien. = Biennial	Gen. when after N.Y. = Geneva
Biol. = Biological	Gentl. = Gentleman
Bost. = Boston	Geog. = Geographic
Br. = Branch	Geol. = Geology
Bur. = Bureau	Gr. = Grain
C. = Circular	Grow. = Grower
C. when after N.Y. = Cornell	Homest. = Homestead
C. Gentl. = Country Gentleman	Hort. = Horticulture, Horticulturist
Can. = Canada	Hosp. = Hospital
Clem. = Clemson	Hyg. = Hygiene, Hygienic
Coll. = College	Illus. = Illustrated
Comm. = Commission	Impl. = Implement
Comp. = Comparative	Indus. = Industrialist
Confer. = Conference	Infec. = Infectious
Cong. = Congress	Infor. = Information
Conserv. = Conservation	Inj. = Injurious
Cont. = Contribution	Ins. = Insect
Conv. = Convention	Insect. = Insecticide
Coop. = Cooperative	Insp. = Inspection
Cranb. = Cranberry	Internat. = International
Cult. = Cultivator	Interst. = Interstate
Cutan. = Cutaneous	J. = Journal
Dairym. = Dairyman	L.I. = Long Island
Dept. = Department	Lab. = Laboratory
Dermat. = Dermatology	Lumberm. = Lumberman
Destr. = Destructive	Mag. = Magazine
Dis. = Disease	Man. = Manual
Dom. = Dominion	Med. = Medicine, Medical
Ec. = Economic	Meet. = Meeting
Ecol. = Ecology	M. = Memoir
Ed. = Education	Met. = Metallurgical
Elev. = Elevator	Mil. = Military
Eng. = Engineering	Mill. = Miller
Ent. = Entomologist, Entomology	Mod. = Modern
	Month. = Monthly

Mus. = Museum
 N. Eng. = New England
 Nat. = National, Naturalist
 Northw. = Northwestern
 Not. = Notices
 Nurs. = Nursery
 Off. = Official
 Ont. = Ontario
 Orch. = Orchard
 P. = Proceedings
 P.B. = Press Bulletin
 Pac. = Pacific
 Path. = Pathological
 Phytopath. = Phytopathological
 Pl. = Plant, Planter
 Poly. = Polytechnic
 Pom. = Pomological
 Pop. = Popular
 Poul. = Poultry
 Prevent. = Preventive
 Proclam. = Proclamation
 Prod. = Producer
 Prog. = Progressive
 Prot. = Protection
 Pub. = Public, Publication
 Quar. = Quarterly
 R. = Report
 Rec. = Record
 Res. = Research
 Rev. = Review
 Roy. = Royal
 Rur. = Rural
 Ry. = Railway

Sec. = Secretary
 Serv. = Service
 Sess. = Session
 Soc. = Society
 So. = South
 South. = Southern
 Sp. = Special
 St. = State
 Sta. = Station
 Statis. = Statistical
 Stockm. = Stockman
 Succ. = Successful
 Sup. = Supplement
 Suppr. = Suppression
 Supt. = Superintendent
 Surg. = Surgical
 Surv. = Survey
 Syn. = Synopsis
 T. = Technical
 Trans. = Transactions
 Trop. = Tropical
 Univ. = University
 USDA B = Bulletin U.S. Dept. Agriculture
 USDA FB = Farmer's Bulletin U.S. Dept. Agriculture
 USDA YB = Yearbook U.S. Dept. Agriculture
 Veg. = Vegetation
 Vet. = Veterinary
 West. = Western
 Wkly. = Weekly
 Zool. = Zoology

AMERICAN ECONOMIC ENTOMOLOGY INDEX OF LITERATURE, 1930-1934

Compiled by MABEL COLCORD

- Abagrotis barnesi**
Newcomer, USDA C. 270: 29, 1933.
- Abella ducassei**
nDozier, P. Ent. Soc. Wash. 34: 30-31, 1932.
- Abdastartus sacchari**
nDrake, Pan-Pac. Ent. 7: 15-16, 1930.
- Abia americana**
Britton, Conn. B. 344: 119, 1933.
Keifer, J. Ec. Ent. 26: 293, 1933.
- Abia inflata**
Britton, Conn. B. 344: 119, 1933.
- Ablabia longana**
Hyslop, J. Ec. Ent. 27: 561, 1934.
- Ablautus mcgregori**
nBromley, Ann. Ent. Soc. Amer. 27: 88, 1934.
- Ablerus connectans**, 35-36, **macrochaeta inquirenda**, 34-35
biClausen & Berry, USDA TB 320: 1932.
- Abracris nebulosa**
Hebard, Trans. Amer. Ent. Soc. 58: 274, 1932.
- Abrodiaeta** *see* **Allacta**
- Abrostola parvula**
Benjamin, P. Ent. Soc. Wash. 34: 126, 1932.
- Abstrulia tessellata**
Frost, Bklyn. Ent. Soc. B. 26: 6, 1931.
- Abutilon moth**, *see* **Anomis erosa**
- Acacia psyllid**, *see* **Psylla acaciae balleyanae**
- Acadian hairstreak**, *see* **Strymon acadica souhegan**
- Acalypta barberi**
nDrake, Bklyn. Ent. Soc. B. 29: 196, 1934.
- Acalypta duryi, saundersi**
Drake, Bklyn. Ent. Soc. B. 25: 268, 1930.
- Acamatus**—Texas
ibCreighton, Psyche, 39: 73-78, 1932.
- Acanalonia spp.**
nBall, Psyche 40: 149-150, 1933.
biDoering, Ann. Ent. Soc. Amer. 25: 758-786, 1932.
- binMetcalf & Bruner, Psyche 37: 408-417, 1930.
nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21(4): 38-39, 1933.
- Acanaloniidae**—Cuba
biMetcalf & Bruner Psyche 37: 393-424, 1930.
- Acanosema sylvana**
nWhittaker, P. Ent. Soc. Wash. 32: 134-135, 1930.
- Acanthagyna**—Key
Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 21-22, 1932.
- Acanthiophilus brunneus, griseus**
nMunro, Amer. Mus. Nov. 739: 4-5, 1934.
- Acanthiscium superbus**
inHaviland-Brindley, Zoologica 7: 146-147, 1931.
- Acanthocephala femorata**
Watson, Fla. B. 232: 80-81, 1931.
- Acanthochela, A. chilensis**
inEwing, PUSNM 82 (30): 1-2, 1933.
- Acanthocinus nodosus**
Knull, Ent. News 43: 64, 1932.
bKnull, J. Ec. Ent. 27: 718, 1934.
- Acantholoma denticulata**
biHarris & Andre, Ann. Ent. Soc. Amer. 27: 5-15, 1934.
- Acanthomyrmex crassispina**
inWheeler, N. Eng. Zool. Club P. 11: 101-103, 1930.
- Acanthopsyche junodi**
biDeLong, Ohio J. Sci. 34: 195, 1934.
- †**Acanthoscelides obtectus** (Bean weevil)*
iBack, USDA FB 1275 rev.: 10-12, 1930.
Britton, Conn. B. 344: 82, 1933.
iCaesar, Ont. Dept. Agr. B. 359: 22-23, 1931.
Compton, Ill. C. 391: 35, 1932.
Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 33-34, 1933.
iDustan, Can. Dept. Agr. Ent. B. 32: 32, 1932.

†*Acanthoscelides obtectus* *Cont'd*

- iEssig & Hoskins, Cal. Ext. C. 87: 25, 1934.
 iGilbert & Popenoe, USDA FB 1371 rev.: 10, 1934.
 Herrick & Griswold, J. Ec. Ent. 24: 1084-1086, 1931.
 iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 54, 1934.
 biHey, J. Exp. Zool. 64(1): 209-229, 1932.
 bHorsfall, J. Ec. Ent. 27: 405-409, 1934.
 iL.H.W., Rur. N. Y. 91: 202, 1932.
 McDaniel, Mich. Quar. B. 16: 169-170, 1934.
 biMacLeod, Ann. Ent. Soc. Amer. 26: 603-615, 1933.
 iMarcovitch, Tenn. B. 150, 1934. 8p.
 Marlatt, USDA Ent. R.f. 1930: 60-61; R.f. 1931: 70-71; R.f. 1932: 27-28; R.f. 1933: 33.
 biMenusan, Ann. Ent. Soc. Amer. 27: 515-526, 1934.
 biMex. Agr. & Fomento. Principales Plagas: 233-234, 1930.
 iMunro & Riddle, N.D. C. 42 rev.: 15-16, 1933.
 iParks & Jones, Ohio Ext. B. 97 rev.: 4-5, 1933.
 iStiles, Okla. Ext. News 13(9): 2, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 80, 1933.
 iWatson, Fla. B. 232: 29-30, 1931.
 Webster, Wash. Ext. B. 186: 2, 1934.
Acanthoscelidius utahensis
 nTanner, Ann. Ent. Soc. Amer. 27: 48-49, 1934.
Acanthoscelis, *see* *Acanthoscelidius*
Acaridae and *scabies*
 Lacy, Tex. Live Stock Sanitary Com. R. f. 1933: 33-36, 1934.
Acarina
 Davenport, Better Fruit 25(3): 6, 1930.
 Gansser, J. Amer. Leath. Chem. Assoc. 29: 590, 1934.
 Reed, Science 72: 619-620, 1930.
 i[Stevenson] Common Animal Parasites Injur. to Sheep in Eastern Can.: 40-44, [1931?]
 Stoddard, Bobwhite Quail: 320-323, 1931.
 Wallace, Ind. YB f. 1930: 480.
 biJ. Ent. & Zool. 25: 8-12, 1933.

Acarina and disease

- biMatheson, Med. Ent.: 29-90, 1932.
 Rawson, Sci. Month. 39: 506-510, '34.
Acarina and Dutch elm disease
 Jacot, J. Ec. Ent. 27: 858-859, 1934.
Acarus geniculatus, *scaber*
 Jacot, Psyche 39: 59-63, 1932.
Acarus scabiei and *scabies*
 biOrmsby, Pract. Treat. Dis. Skin ed. 4: 1061-1069, 1934.
Acarus vespertilionis
 iCollins, Nat. Inst. Health B. 155: 748-755, 1931.
Acentrella ampla
 nTraver, Elisha Mitchell Sci. Soc. J. 47: 233-234, 1932.
Aceratagallia sanguinolenta
 bBlack, Amer. Potato J. 11: 148-152, 1934.
 bOsborn, USDA C 241: 32-33, 1932.
Aceratagallia spp.
 binOman, USDA TB 372: 45-70, 1933.
Acerophagus notativentris
 Swezey, Hawaiian Ent. Soc. P. 8: 31, 1932.
Achaetoneura nigripalpis
 nAldrich, PUSNM 81(9): 27-28, 1932.
Achaetoneura spp.
 inWebber, PUSNM 78(10): 1930. 37p.
Achalarus albociliatus, *albociliatus leucophrys*
 Williams & Bell, Trans. Amer. Ent. Soc. 60: 123, 124, 1934.
Achalarus lycidas
 Saunders, N.Y. St. Mus. Hdbk. 13: 262-263, 1932.
Achalarus toxus
 iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 265-267, 1934.
Achanodes
 nForbes, P.R. Dept. Agr. J. 15: 384-385, 1931.
Achanodes antipathetica
 nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 384-385, 1931.
 nForbes, P.R. Dept. Agr. J. 15: 384-385, 1931.
Achatodes zeae
 bBreakley, Ann. Ent. Soc. Amer. 23: 175-191, 1930.
 biSilver, USDA TB 345, 1933. 20p.

- Achillas bicaudatus**
Barber, Ent. Amer. n.s. 10: 210-211, 1930.
- Acholla multispinosa**
Ross & Putman, Ent. Soc. Ont. R. 64: 38, 1933.
- Achorutes armatus**
bFolsom, J. Ec. Ent. 26: 936, 1933.
biThomas, Penn. St. B. 270: 26-31, 1931.
- Achorutes manubrialis**
Britton, Conn. B. 327: 573, 1931.
- Achorutes matorus**
Davis, P. Ent. Soc. Wash. 36: 269, '34.
Wallace, Ind. Dept. Conserv. R. 13: 62, 1931.
- Achorutes (Schöttella) minutissimus**
inMills, Collembola of Iowa: 14, 1934.
- Achroia grisella**
iEssig & Hoskins, Cal. Ext. C. 87: 104, 1934.
- Achromia parasitica**
biOrmsby, Pract. Treat. Dis. Skin, ed. 4: 1084-1085, 1934.
- Acidalia spp.**
nCassino, Lepidopterist 5: 10-21, 1931.
- Acidogona**
biBenjamin, USDA TB 401: 31-32, 1934.
- Acinia**
biBenjamin, USDA TB 401: 46-49, '34.
- Acinopterus spp.**
inLawson, Pan-Pac. Ent. 6: 136-138, '30.
nLawson, J. Kans. Ent. Soc. 4: 59-60, 1931.
- Acicurina**
nCurran, Amer. Mus. Nov. 556: 9-12, 1932.
- Acletoxenus indica**
biClausen & Berry, USDA TB 320: 43-45, 1932.
- Acmaeodera carlota**
nFall, Pan-Pac. Ent. 8: 81-82, 1931.
- Acmaeodera gibbula gila**
nKnull, Ent. News 41: 16, 1930.
- Acmaeodera lineipicta**
nFall, Pan-Pac. Ent. 8: 81, 1931.
- Acmaeodera nigrovittata**
nVan Dyke, Ent. News 45: 61-62, 1934.
- Acmaeodera papagonis**
nDuncan, Bklyn. Ent. Soc. B. 28: 231, 1933.
- Acmaeodera pinalorum**
nKnull, Ent. News 41: 15-16, 1930.
- Acmaeodera postica**
Davis, Bklyn. Ent. Soc. B. 26, 187, 1931.
- Acmaeodera vanduzeei**
nVan Dyke, Ent. News 45: 64-65, 1934.
- Acmaeodera variegata**
Chamberlin, J. Ec. Ent. 25: 835, 1932.
- Acmaeodera varipilis**
nVan Dyke, Ent. News 45: 62-64, 1934.
- Acnephylum cockerelli**
nCurran, Amer. Mus. Nov. 710: 5-6, '34.
- Acoloides cubensis**
nGahan, Ann. Ent. Soc. Amer. 25: 755-756, 1932.
- Acrepidopterus pilosum**
nFisher, PUSNM 80(22): 75-76, 1932.
- Acrididae**
Alexander, Ann. Ent. Soc. Amer. 26: 586-590, 1933.
bCriddle, P. World's Grain Exhib. & Conf., Can. 474-494, 1933.
Essig, Hist. of Ent. 92-95, 1931.
Lockwood, Cal. Agr. Mo. B. 18: 764, 1929.
Morse, J. Ec. Ent. 23: 465, 1930.
Mumford, Hawaiian Ent. Soc. P. 8: 224-225, 1933.
bUvarov, Bernice P. Bishop Mus. B. 98: 239-240, 1932.
Wallace et al., Ind. Dept. Conserv. R. 14: 57, 1933.
- Acridiinae**
bNabours, P. Nat. Acad. Sci. 16: 350-353, 1930.
biRehn, P. Acad. Nat. Sci. Phila. 81: 477-519, 1929.
bRobertson, Genetics 16: 353-356, 1931.
biRobertson, J. Morphol. 51: 119-145, 1931.
- Acrobasis caryae (Pecan nut casebearer)***
Adrian, Farm & Ranch 50(15): 18, 22, 1931.
Bilsing, Amer. Nut J. 33(2): 23, 1930.
Bilsing, Tex. R. 43: 39-40, 1930.
Bilsing, Nat. Pecan Grow. Assoc. P. 30: 51-57, 1931.
Bilsing, Tex. Pecan Grow. Assoc. P. 11: 76-81, 1931.
Bilsing, Tex. R. 44: 38, 1931; 45: 39, 1932; 46: 49, 1933; 47: 49, 1934.
Bilsing, Pecan Grow. 1(7): 1, 8, 1933.
Burkett, Tex. Dept. Agr. B. 111: 199-202, 1932.

†*Acanthoscelides obtectus* *Cont'd*

- iEssig & Hoskins, Cal. Ext. C. 87: 25, 1934.
 iGilbert & Popenoe, USDA FB 1371 rev.: 10, 1934.
 Herrick & Griswold, J. Ec. Ent. 24: 1084-1086, 1931.
 iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 54, 1934.
 biHey, J. Exp. Zool. 64(1): 209-229, 1932.
 bHorsfall, J. Ec. Ent. 27: 405-409, 1934.
 iL.H.W., Rur. N. Y. 91: 202, 1932.
 McDaniel, Mich. Quar. B. 16: 169-170, 1934.
 biMacLeod, Ann. Ent. Soc. Amer. 26: 603-615, 1933.
 iMarcovitch, Tenn. B. 150, 1934. 8p.
 Marlatt, USDA Ent. R.f. 1930: 60-61; R.f. 1931: 70-71; R.f. 1932: 27-28; R.f. 1933: 33.
 biMenusan, Ann. Ent. Soc. Amer. 27: 515-526, 1934.
 biMex. Agr. & Fomento. Principales Plagas: 233-234, 1930.
 iMunro & Riddle, N.D. C. 42 rev.: 15-16, 1933.
 iParks & Jones, Ohio Ext. B. 97 rev.: 4-5, 1933.
 iStiles, Okla. Ext. News 13(9): 2, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 80, 1933.
 iWatson, Fla. B. 232: 29-30, 1931.
 Webster, Wash. Ext. B. 186: 2, 1934.

Acanthoscelidius utahensis

- nTanner, Ann. Ent. Soc. Amer. 27: 48-49, 1934.

Acanthoscelis, see *Acanthoscelidius**Acaridae* and *scabies*

- Lacy, Tex. Live Stock Sanitary Com. R. f. 1933: 33-36, 1934.

Acarina

- Davenport, Better Fruit 25(3): 6, 1930.
 Gansser, J. Amer. Leath. Chem. Assoc. 29: 590, 1934.
 Reed, Science 72: 619-620, 1930.
 i[Stevenson] Common Animal Parasites Injur. to Sheep in Eastern Can.: 40-44, [1931?]
 Stoddard, Bobwhite Quail: 320-323, 1931.
 Wallace, Ind. YB f. 1930: 480.
 biJ. Ent. & Zool. 25: 8-12, 1933.

Acarina and *disease*

- biMatheson, Med. Ent.: 29-90, 1932.
 Rawson, Sci. Month. 39: 506-510, '34.
Acarina and *Dutch elm disease*
 Jacot, J. Ec. Ent. 27: 858-859, 1934.
Acarus geniculatus, *scaber*
 Jacot, Psyche 39: 59-63, 1932.
Acarus scabiei and *scabies*
 biOrmsby, Pract. Treat. Dis. Skin ed. 4: 1061-1069, 1934.
Acarus vespertilionis
 iCollins, Nat. Inst. Health B. 155: 748-755, 1931.
Acentrella ampla
 nTraver, Elisha Mitchell Sci. Soc. J. 47: 233-234, 1932.
Aceratagallia sanguinolenta
 bBlack, Amer. Potato J. 11: 148-152, 1934.
 bOsborn, USDA C 241: 32-33, 1932.
Aceratagallia spp.
 binOman, USDA TB 372: 45-70, 1933.
Acerophagus notativentris
 Swezey, Hawaiian Ent. Soc. P. 8: 31, 1932.
Achaetoneura nigripalpis
 nAldrich, PUSNM 81(9): 27-28, 1932.
Achaetoneura spp.
 inWebber, PUSNM 78(10): 1930. 37p.
Achalarus albociliatus, *albociliatus leucophrys*
 Williams & Bell, Trans. Amer. Ent. Soc. 60: 123, 124, 1934.
Achalarus lycidas
 Saunders, N.Y. St. Mus. Hdbk. 13: 262-263, 1932.
Achalarus toxus
 iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 265-267, 1934.
Achanodes
 nForbes, P.R. Dept. Agr. J. 15: 384-385, 1931.
Achanodes antipathetica
 nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 384-385, 1931.
 nForbes, P.R. Dept. Agr. J. 15: 384-385, 1931.
Achatodes zeae
 bBreaky, Ann. Ent. Soc. Amer. 23: 175-191, 1930.
 biSilver, USDA TB 345, 1933. 20p.

- Achillas bicaudatus**
Barber, Ent. Amer. n.s. 10: 210-211, 1930.
- Acholla multispinosa**
Ross & Putman, Ent. Soc. Ont. R. 64: 38, 1933.
- Achorutes armatus**
bFolsom, J. Ec. Ent. 26: 936, 1933.
biThomas, Penn. St. B. 270: 26-31, 1931.
- Achorutes manubrialis**
Britton, Conn. B. 327: 573, 1931.
- Achorutes maturus**
Davis, P. Ent. Soc. Wash. 36: 269, '34.
Wallace, Ind. Dept. Conserv. R. 13: 62, 1931.
- Achorutes (Schöttella) minutissimus**
inMills, Collembola of Iowa: 14, 1934.
- Achroia grisella**
iEssig & Hoskins, Cal. Ext. C. 87: 104, 1934.
- Achromia parasitica**
biOrmsby, Pract. Treat. Dis. Skin, ed. 4: 1084-1085, 1934.
- Acidalia spp.**
nCassino, Lepidopterist 5: 10-21, 1931.
- Acidogona**
biBenjamin, USDA TB 401: 31-32, 1934.
- Acinia**
biBenjamin, USDA TB 401: 46-49, '34.
- Acinopterus spp.**
inLawson, Pan-Pac. Ent. 6: 136-138, '30.
nLawson, J. Kans. Ent. Soc. 4: 59-60, 1931.
- Acirura**
nCurran, Amer. Mus. Nov. 556: 9-12, 1932.
- Acletoxenus indica**
biClausen & Berry, USDA TB 320: 43-45, 1932.
- Acmaeodera carlota**
nFall, Pan-Pac. Ent. 8: 81-82, 1931.
- Acmaeodera gibbula gila**
nKnull, Ent. News 41: 16, 1930.
- Acmaeodera lineipicta**
nFall, Pan-Pac. Ent. 8: 81, 1931.
- Acmaeodera nigrovittata**
nVan Dyke, Ent. News 45: 61-62, 1934.
- Acmaeodera papagonis**
nDuncan, Bklyn. Ent. Soc. B. 28: 231, 1933.
- Acmaeodera pinalorum**
nKnull, Ent. News 41: 15-16, 1930.
- Acmaeodera postica**
Davis, Bklyn. Ent. Soc. B. 26, 187, 1931.
- Acmaeodera vanduzeei**
nVan Dyke, Ent. News 45: 64-65, 1934.
- Acmaeodera variegata**
Chamberlin, J. Ec. Ent. 25: 835, 1932.
- Acmaeodera varipilis**
nVan Dyke, Ent. News 45: 62-64, 1934.
- Acnephylum cockerelli**
nCurran, Amer. Mus. Nov. 710: 5-6, '34.
- Acoloides cubensis**
nGahan, Ann. Ent. Soc. Amer. 25: 755-756, 1932.
- Acrepidopterus pilosum**
nFisher, PUSNM 80(22): 75-76, 1932.
- Acrididae**
Alexander, Ann. Ent. Soc. Amer. 26: 586-590, 1933.
bCriddle, P. World's Grain Exhib. & Conf., Can. 474-494, 1933.
Essig, Hist. of Ent. 92-95, 1931.
Lockwood, Cal. Agr. Mo. B. 18: 764, 1929.
Morse, J. Ec. Ent. 23: 465, 1930.
Mumford, Hawaiian Ent. Soc. P. 8: 224-225, 1933.
bUvarov, Bernice P. Bishop Mus. B. 98: 239-240, 1932.
Wallace et al., Ind. Dept. Conserv. R. 14: 57, 1933.
- Acridiinae**
bNabours, P. Nat. Acad. Sci. 16: 350-353, 1930.
biRehn, P. Acad. Nat. Sci. Phila. 81: 477-519, 1929.
bRobertson, Genetics 16: 353-356, 1931.
biRobertson, J. Morphol. 51: 119-145, 1931.
- Acrobasis caryae (Pecan nut casebearer)***
Adrian, Farm & Ranch 50(15): 18, 22, 1931.
Bilsing, Amer. Nut J. 33(2): 23, 1930.
Bilsing, Tex. R. 43: 39-40, 1930.
Bilsing, Nat. Pecan Grow. Assoc. P. 30: 51-57, 1931.
Bilsing, Tex. Pecan Grow. Assoc. P. 11: 76-81, 1931.
Bilsing, Tex. R. 44: 38, 1931; 45: 39, 1932; 46: 49, 1933; 47: 49, 1934.
Bilsing, Pecan Grow. 1(7): 1, 8, 1933.
Burkett, Tex. Dept. Agr. B. 111: 199-202, 1932.

***Acrobasis caryae* Cont'd**

- Firor, Amer. Nut J. 33(2): 22, 1930.
 Gill, Ga. St. Ent. B. 77: 40, 45-46, '33.
 Kisilanko, Nat. Pecan Grow. Assoc. P. 29: 50, 1930.
 Marlatt, USDA Ent. R. f. 1930: 9; R. f. 1931: 14; R. f. 1932: 4; R. f. 1933: 7-8.
 iMoznette, Cal. Agr. Mo. B. 19: 269-270, 1930.
 Moznette, Nat. Pecan Grow. Assoc. P. 29: 40-45, 1930.
 iMoznette, USDA FB 1654: 1-9, 1931.
 Walker, Fla. R. f. 1932: 76-78.
 iWalker, Ga.-Fla. Pecan Grow. Assoc. P. 27: 31-35, 1933.
 Walker, Nat. Pecan Grow. Assoc. P. 32: 12-14, 1933.
 Watson, Fla. R. f. 1930: 70.
***Acrobasis caryae*—Parasites**
 Gill, Nat. Pecan Grow. Assoc. P. 29: 70-74, 1930.
 Nickels, Nat. Pecan Grow. Assoc. P. 30: 58-62, 1931.
 Nickels, Tex. Pecan Grow. Assoc. P. 13: 67, 1933.
 [Nickels], Pecan Grow. 1(3): 5, 8, 1933.
 Nickels & Pinkney, J. Ec. Ent. 23: 287-288, 1930.
Acrobasis hebescella*, see *Acrobasis caryae
Acrobasis juglandis* (Pecan leaf case-bearer)
 Watson, Fla. R. f. 1930: 70-71.
 Walker, Fla. R. f. 1932: 78-80.
 bWilmot & Walker, Fla. Ent. 16: 25-28, 1932.
Acrobasis nebulella
 Gill, Ga. St. Ent. B. 77: 40, 46, 1933.
 Kisilanko, Nat. Pecan Grow. Assoc. P. 29: 51, 1930.
 Marlatt, USDA Ent. R. f. 1930: 10.
 Moznette, Amer. Nut. J. 31: 28, 1929.
 Moznette, Assoc. South. Agr. Work. P. 31: 421, 1930.
 Moznette, Ga.-Fla. Pecan Grow. Assoc. P. 24: 28-34, 1930.
 iWalker, Ga.-Fla. Pecan Grow. Assoc. P. 27: 31-33, 35, 1933.
Acrobasis palliolella
 Marlatt, USDA Ent. R. f. 1931: 14-15.
 iMoznette, Cal. Agr. Mo. B. 19: 267-268, 1930.

- bMoznette, J. Ec. Ent. 23: 691-699, '30.
 iMoznette, et al, USDA FB 1654: 22-27, 1931.
Acrobasis vaccinii*, see *Mineola vaccinii
Acrocentropus
 inBetten, N.Y. St. Mus. B. 292: 213, '34.
***Acrocercops cissiella*, 177-178, *clitoriella*, 175-176, *cordiella*, 174-175.**
 nBusck, Ent. Amer. n.s. 13: 1933.
Acrocercops cymella
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 380-381, 1931; P.R. Dept. Agr. J. 15: 380-381, 1931.
Acrocercops inconspicua
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12, 142-143, 1930.
***Acrocercops ipomoeae* 178-179, *maranthaceae* 177, *melantherella* 175.**
 nBusck, Ent. Amer. n.s. 13: 1933.
Acrocercops pontifica
 inForbes, P.R. Dept. Agr. J. 15: 380, '31.
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.) 380, 1931.
Acrocercops sanctaecrucis
 inBusck, Ent. Amer. n.s. 13: 173, 1933.
Acrocercops zebrulella
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.) 381-382, 1931; P.R. Dept. Agr. J. 15: 381-382, 1931.
Acrolepia aiea
 nSwezey, Hawaiian Ent. Soc. P. 8, 303-304, 1933.
Acrolepia cestrella
 n Busck, Ent. Amer. n.s. 13: 186-187, 1933.
***Acrolophus*—Key**
 iForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 159-162, 1930.
Acrolophus* (*Acrolophus*) *harparsen
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.) 391-393, 1931; P.R. Dept. Agr. J. 15: 391-392, 1931.
Acrolophus* (*Anaphora*) *triformellus
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 163-164, 1930.
Acronarista cornuta
 nReinhard, Ent. News 41: 26-27, 1931.
***Acroneuria*—Key**
 biClaassen, Plecoptera Nymphs of Amer. 80-91, 1931.
***Acroneuria evoluta*—Morphology**
 biClark, Ohio J. Sci. 34: 121-128, 1934.

- Acroneuria perbranchiata**
 nNeave, Can. Ent. 65: 237-238, 1933.
- Acronopsycha, A. pilosa**
 inBanks, Psyche 37: 227-229, 1930.
- Acropiesta pulchella**
 nWhittaker, P. Ent. Soc. Wash. 32: 75-76, 1930.
- Acrosternum hilaris (Green stinkbug)***
 biBaker, Can. J. Res. 4: 201, 1931.
 Drinkard, Va. Poly. Inst. R. f. 1927-1931: 38.
- biFriend & Turner, Conn. B. 332: 104-105, 1931.
 Herrick, Rur. N.Y. 91: 882, 1932.
- iHutson, Mich. Quar. B. 15: 222-223, 1933.
 Hutson, Midwest Fruitman 6(12): 6, 1933.
- Ladd, N.Y. (Gen.) R. 52: 57, 1933.
 Munding & Chapman, J. Ec. Ent. 25: 655-658, 1932.
- bSchoene & Underhill, J. Agr. Res. 46: 863-866, 1933.
- biUnderhill, Va. Poly. B. 294; 1934. 26p.
 Watson, Cit. Ind. 12(9): 17, 29, 32-34, 1931.
- Acrosternum hilaris and kernel spot**
 Burkett, Tex. Dept. Agr. B. 111: 208, 1932.
- Acrotomopus atropunctellus**
 Holloway, Facts about Sugar 26: 304, 1931.
- iJaynes, Ann. Ent. Soc. Amer. 24: 554-560, 1931.
- Acrydium arenosum**
 biNabours, Larson & Hartig, Genetics 18: 159-171, 1933.
- Acrydium arenosum angustum**
 bSabrosky et al, Kans. Acad. Sci. Trans. 36: 298-300, 1933.
- Acrydium granulatum, see Acrydium subulatum**
- Acrydium subulatum**
 Buckell, B.C. Ent. Soc. P. 27: 30-31, 1930.
- Actabia fennica**
 iCook, Minn. Ext. C. 48, 1934, 8p.
 bCrumb, Bklyn. Ent. Soc. B. 27: 84-85, 1932.
- Phipps, Maine B. 356: 154-155, 1930.
- Actenodes nobilis**
 Fisher, P. Ent. Soc. Wash. 32: 127, '30.
- Actia spp.**
 nCurran, Amer. Mus. Nov. 614, 1933. 17p.
 iGreene, P. Ent. Soc. Wash. 36: 34, '34.
- Actias luna, see Tropea luna**
- Actias selene**
 iWickwire & Calale, Can. Ent. 65: 265-268, 1933.
- Actinomylacris similis**
 inCarpenter, Carnegie Mus. Ann. 22: 337-338, 1934.
- Actiopsis autumnalis, rufescens**
 inGreene, P. Ent. Soc. Wash. 36: 34-35, 1934.
- Acucephalus albifrons**
 Ball, Ann. Ent. Soc. Amer. 25: 499, '32.
- Acunomia**
 nCockerell, Amer. Mus. Nov. 433: 11-12, 1930.
- Acupalpus (Stenolophus) convexulus**
 nDarlington, Psyche 41: 112-113, 1934.
- Acyphoderes baeri, cribricollis, rufofemorata**
 Fisher, PUSNM 77(19): 10-13, 1931.
- Acythopeus aterrimus, see Orchidophilus aterrimus**
- Acythopeus gilvonotatus, see Orchidophilus gilvonotatus**
- Acythopeus sp.**
 Swezey, Hawaiian Ent. Soc. P. 8: 393, 1934.
- Adactynus spp.**
 nHottes, P. Biol. Soc. Wash. 46: 13-19, 1933.
- Adaina—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 75, 1930.
- Adaina cinerascens**
 Braun, Can. Ent. 62: 123, 1930.
- Adalia bipunctata (Two-spotted lady-beetle)***
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 3-4, 1934.
- Huntington, Gard. Club Amer. B. ser. 4, 18: 116-117, 1931.
- Yothers, USDA TB 420: 37, 1934.
- Adalia nigromaculata**
 nNunenmacher, Pan-Pac. Ent. 10: 20, 1934.
- Adapsilia flaviseta**
 biClausen, Jaynes & Gardner, USDA TB 366: 13-20, 1933.

- †*Adelges abietis* (Spruce gall aphid)
 iBailey, Cult. Conifers N. Amer.: 345-347, 1933.
 iBritton, Conn. B. 344: 162, 1933.
 Chadwick, Flor. Rev. 70(1805): 63, '32.
 Chambers, Wis. Hort. 22: 208, 1932.
 iChambers & Thompson, Wis. Dept. Agr. B. 145: 66, 1933.
 Felt & Bromley, Nat. Shade Tree Conf. P. 6: 20, 1930.
 Felt & Bromley, J. Ec. Ent. 24: 107, 1931.
 biFriend & Wilford, J. For. 31: 816-825, 1933.
 [Gambrell] Hort. n.s. 9: 388, 1931.
 Gambrell, J. Ec. Ent. 24: 355-361, '31.
 Gambrell, Hort. n.s. 10: 149, 1932.
 Gambrell, Nat. Nurserym. 40(19): 12, 1932.
 bGambrell, Nat. Shade Tree Conf. P. 8: 89, 1932.
 biGambrell, N.Y. (Gen.) TB 225: 1934. 55p.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 41, 1934.
 bHerrick, N.Y. (C.) B. 515: 21-24, '31.
 Macdonald, N.Y. Conserv. Dept. R. 20: 188, 1930.
 iPeirson, Field Book of Destruct. For. Ins. ed. 2: 20, 1932.
 Pettit, Mich. Bd. Agr. R. 67: 191, '28.
 biSoraci, N.J. Dept. Agr. C. 243: 54-55, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 75, 1933; R. 65: 124-125, 1934.
Adelges cooleyi
 biSoraci, N.J. Dept. Agr. C. 243: 55-56, 1934.
Adelges piceae
 biBalch, Sci. Agr. 14: 374-383, 1934.
 bPierson & Gillespie, J. Ec. Ent. 27: 340-341, 1934.
Adelges pinicorticis (Pine bark louse)
 Chambers, Wis. Hort. 22: 208, 1932.
 iChambers & Thompson Wis. Dept. Agr. B. 123: 40-41, 1931; B. 145: 56-57, 1933.
 biEasterling, Ohio J. Sci. 34: 132-133, 1934.
 Hutson, Mich. R. 47: 214, 1934.
 bSoraci, N.J. Dept. Agr. C. 243: 53-54, 1934.
Adelocera candida
 nFall, Can. Ent. 64: 59, 1932.
Adelocera (ex Lacon) lopezi
 nFleutiaux, Hawaiian Ent. Soc. P. 8: 477-478, 1934.
Adelocera marmorata
 Knull, Ent. News 45: 208, 1934.
Adelocera mexicana
 Fall, Can. Ent. 64: 59-60, 1932.
 Van Dyke, Cal. Acad. Sci. P. ser. 4, 20: 293, 1932.
Adelocera nobilis
 nFall, Can. Ent. 64: 58-59, 1932.
Adelocera perantiqua
 inCockerell & Leveque, Amer. Nat. 64: 359, 1931.
Adelognathus deganti
 nCushman, PUSNM 82(14): 14-15, '33.
Adelops hirtus
 Giovannoli, Bailey, Cave Life of Ky.: 229, 1933.
Adelops lödingi
 nHatch, J. N.Y. Ent. Soc. 41: 209, 1933.
Adelops mitchellensis
 nHatch, J. N.Y. Ent. Soc. 41: 208-209, 1933.
Adelphocoris lineolatus
 Knight, Ent. News 41: 4-6, 1930.
 Knight, J. Ec. Ent. 23: 331-334, 1930.
Adelphocoris rapidus (Rapid plant bug)*
 biEwing & McGarr, J. Ec. Ent. 26: 943-953, 1933.
 iFolsom, USDA FB 1688: 18, 1932.
 Harned, USDA YB f. 1933: 127.
Adelphocoris superbus
 Cardon, Utah B. 235: 56-57, 1932.
 Cardon, Utah B. 250: 51, 1934.
 Sorenson, Utah Acad. Sci. P. 9: 67-70, 1932.
 biSorenson, Utah C. 98: 11-12, 1932.
Adelungia caudata, see *Claassenia caudata*
Adenoneura parapteryx
 Swezey, Hawaiian Ent. Soc. P. 8: 232, 1933.
Adetus vanduzeei
 nLinsley, Pan-Pac. Ent. 10: 62-63, 1934.
Adichosiops
 nTownsend, J. N.Y. Ent. Soc. 40: 441, 1932.
Adonia variegata
 biDobzhansky, Amer. Nat. 57: 100-102, 1933.

Adopaea lineola

bRawson, J. N.Y. Ent. Soc. 39: 503-506, 1931.

Adoretus lopezi, luridus, philippinicus

iChapin, J. Wash. Acad. Sci. 21: 305-308, 1931.

Adoretus sinicus

Illingworth, Hawaiian Ent. Soc. P. 7: 408, 1931.

Pemberton, Hawaiian Ent. Soc. P. 8: 511, 1934.

Pemberton, Hawaiian Sugar Pl. Assoc. P. 53: 16-17, 1934.

biWilliams, Handb. Insects. Hawaiian Sugar Cane Fields: 194-198, 1931.

Adoretus sinicus—Parasites

Pemberton, Hawaiian Sugar Pl. Assoc. P. 52: 22, 1933.

Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 128-129, 1931.

Adoxus obscurus (Western grape root-worm)*

iEssig & Hoskins, Cal. Ext. C. 87: 55, 1934.

Adranes lecontei

bPark, Ann. Ent. Soc. Amer. 25: 80-85, 1932.

Aedeomyia squamipennis

Matheson, P. Ent. Soc. Wash. 36: 120, 1934.

Aedes

biMatheson, Mos. North Amer.: 95-159, 1929.

biShannon & Putnam, P. Ent. Soc. Wash. 36: 185-242, 1934.

Aedes—Egg-laying capacity and longevity

biPutnam & Shannon, P. Ent. Soc. Wash. 36: 217-242, 1934.

Aedes—Larvae

Shannon, P. Ent. Soc. Wash. 33: 15-21, 1931.

biShannon & Putnam, P. Ent. Soc. Wash. 36: 185-216, 1934.

Twinn, N.J. Mos. Exterm. Assoc. P. 18: 35, 1931.

Aedes—Ships

Tanner, U.S. Pub. Health R. 46: 2306-2320, 1931.

Aedes aboriginis

biMatheson, Mos. North Amer.: 145-146, 1929.

Aedes abserratus

biMatheson, Mos. North Amer.: 122-123, 1929.

Twinn, N.J. Mos. Exterm. Assoc. P. 18: 14-15, 1931.

Aedes aegypti (Yellow-fever mosquito)*

Beeuwkes et al, Amer. J. Trop. Med. 10: 307, 309, 323, 1931.

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 34-35, 1932.

bBliss & Gill, Tenn. Acad. Sci. J. 8: 418-423, 1933.

Bradley, Fico News 1(9): 3-4, 1933.

Davis, Amer. J. Trop. Med. 11: 40, 1931.

Davis, Amer. J. Hyg. 13(1): 79-125, 1931.

bFrobisher, Amer. J. Hyg. 15: 488-496, 1932.

bFrobisher, Davis & Shannon, Amer. J. Hyg. 14: 142-146, 1931.

Frobisher & Shannon, Amer. J. Hyg. 13: 616, 1931.

biGerry, Ann. Ent. Soc. Amer. 25: 41, 1932.

Hayes, U.S. Naval Med. B. 28: 207-213, 1930.

biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 15-16, 1931; Ext. B. 202 rev.: 14, 1934.

Hinman, Science n.s. 76: 106-107, '32.

Illingworth, Hawaiian Ent. Soc. P. 7: 414, 1931.

biMason, Rockefeller Found. R. f. 1930: 45-53; R. f. 1931: 32-35.

biMatheson, Mos. North Amer.: 33, 140-142, 1929.

biMatheson, Med. Ent.: 221-226, 1932.

Ramsey, Amer. J. Hyg. 13: 129-160, 1931.

iRiley & Johannsen, Med. Ent.: 252-258, 1932.

bRussell, Rockefeller Found. R. f. 1932: 56-58.

St. John et al, Amer. J. Trop. Med. 10: 237-241, 1931.

Shannon, P. Ent. Soc. Wash. 33: 146, 1931.

Shannon, Burke & Davis, Amer. J. Trop. Med. 10: 145-150, 1930.

Siler, Panama Canal Health Dept. R. f. 1932: 41-42, 1933.

- Aedes aegypti* *Cont'd*
 iTarbett, Amer. J. Pub. Health 24: 64-67, 1934.
- Aedes aegypti*—Arsenic
 Illingworth, Hawaiian Ent. Soc. P. 7: 414, 1931.
- Aedes aegypti*—Breeding
 bHinman, Amer. J. Trop. Med. 11: 461-462, 1931.
- Aedes aegypti*—Eggs
 Hinman, Science n.s. 76: 106-107, '32.
 bRozeboom, Amer. J. Hyg. 20: 496-501, 1934.
- Aedes aegypti*—Flight
 Shannon & Davis, Amer. J. Trop. Med. 10: 151-156, 1930.
- Aedes aegypti*—Larvae
 bBliss & Gill, Amer. J. Trop. Med. 13: 583-588, 1933.
 bHinman, Amer. J. Trop. Med. 12(3): 263-271, 1932.
 Johnson, B. Bost. Soc. Nat. Hist. 55: 16-17, 1930.
 biShannon & Frobrisher, Amer. J. Hyg. 14: 426-432, 1931.
- Aedes aegypti* and aeroplanes
 i Griffiths and Griffiths, U.S. Pub. Health R. 46: 2775-2782, 1931.
 bAmer. J. Pub. Health 22: 397-398, '32.
 J. Amer. Med. Assoc. 99: 1877, 1932.
- Aedes aegypti* and diseases—Dengue fever
 bCecil, Text-book of Med. ed. 3: 283-286, 1934.
 bMatheson, Med. Ent.: 264-266, 1932.
 St. John & Holt, Amer. J. Trop. Med. 11: 325-336, 1931.
 St. John, Simmons & Reynolds, Amer. J. Trop. Med. 10: 23-24, 1930.
 Simmons, Amer. J. Trop. Med. 11: 83-87, 1931.
 biSnijders, Dinger & Schüffner, Amer. J. Trop. Med. 11: 171-197, 1931.
 Mil. Surg. 66: 735-738, 1930.
- Aedes aegypti* and disease—Encephalitis
 J. Wash. Acad. Sci. 23: 488, 1933.
- Aedes aegypti* and disease—Equine encephalomyelitis
 Kelsner, Science n.s. 77(1995 sup.): 6-7, 1933.
 Knowlton, Utah B. 250: 47, 1934.
- bShannon & Giltner, J. Amer. Vet. Med. Assoc. 84: 928-934, 1934.
 iSimmons et al, Science n.s. 78: 243-246, 1933.
 Sci. News Letter 24: 173-174, 1933.
 Vet. Med. 28: 284, 1933.
- Aedes aegypti* and disease—Head cold
 Mail, Science n.s. 79: 140, 1934.
- Aedes aegypti* and disease—Tularaemia
 bPhilip, Davis & Parker, U.S. Pub. Health R. 47: 2078-2087, 1932.
- Aedes aegypti* and disease—Yellow fever
 Ashburn, Hygeia 11: 446-449, 469-470, 1933.
 Bauer & Mahaffy, Amer. J. Hyg. 12: 155-174, 1930.
 Bequaert, Carnegie Inst. Wash. Pub. 431: 552-555, 1933.
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 40-41, 1934.
 Carter, Yellow fever, 1931. 308p.
 Cecil, Text-book of Med. ed. 3: 511, 1934.
 Cumming, U.S. Pub. Health R. 46: 2362-2366, 1931.
 bDavis, Amer. J. Hyg. 16: 163-176, '32.
 bDavis et al, J. Exper. Med. 58: 211-226, 1933.
 De Vogel, U.S. Pub. Health R. 46: 2366-2371, 2739-2740, 1931.
 Hanson, Fla. Med. Assoc. J. 16: 399-400, 1930.
 Hedrich, U.S. Pub. Health R. 46: 2733, 1931.
 Hinman, Ann. Ent. Soc. Amer. 25: 617-621, 1932.
 Howard, Hist. of Appl'd Ent.: 192, '30.
 bKerr & Hayne, Amer. J. Trop. Med. 12(3): 255-261, 1932.
 biKumm, Amer. J. Hyg. Monog. ser. 12, 1931. 110p.
 bKumm & Frobrisher, Amer. J. Trop. Med. 12: 349, 1932.
 Mason, Rockefeller Found. R. f. 1930: 31-52.
 bMason, Rockefeller Found. R. f. 1931: 43-48.
 bMatheson, Med. Ent.: 260-264, 1932.
 bPhilip, Amer. J. Trop. Med. 10: 1, '30.
 Riley & Johannsen, Med. Ent.: 247-257, 1932.

- J. Amer. Med. Assoc. 99: 1877, 1932;
100: 354, 1933.
Rockefeller Found. R. f. 1929: 45.
Science n.s. 73(1896 sup.): 14, 1931.
Sci. News Letter 21: 287-288, 1932.
- Aedes aegypti and temperature**
bDavis, Amer. J. Hyg. 16: 177-191, '33.
- Aedes africanus and Yellow fever**
Rockefeller Found. R. f. 1929: 61.
- Aedes albifasciatus**
Matheson, P. Ent. Soc. Wash. 36: 120,
1934.
- Aedes (Stegomyia) albopictus and Dengue fever**
bSimmons, St. John & Reynolds, Amer.
J. Trop. Med. 10: 17-21, 1930.
- Aedes albopictus**
biGerry, Ann. Ent. Soc. Amer. 25: 40,
1932.
- Aedes albopictus and Dengue fever**
Bishopp, N.J. Mos. Exterm. Assoc. P.
19: 19-20, 1932.
iSimmons, Amer. J. Trop. Med. 11: 83-
85, 1931.
- Aedes aldrichi (Northwestern floodwater mosquito)***
Hearle, N.J. Mos. Exterm. Assoc. P.
19: 12, 1932.
iMail, Mont. B. 288: 19, 1934.
biMatheson, Mos. North Amer.: 152-
153, 1929.
- Aedes alpinus**
biMatheson, Mos. North Amer.: 146-
147, 1929.
Twinn, N.J. Mos. Exterm. Assoc. P.
18: 15, 1931.
- Aedes and diseases—Anthrax**
Krijgsman, Pac. Sci. Cong. 5, P. 5:
3358, 1934.
- Aedes and diseases—Buffalo plague**
Krijgsman, Pac. Sci. Cong. 5, P. 5:
3358, 1934.
- Aedes argenteus, see Aedes aegypti**
- Aedes (Finlaya) argyriorhox**
Shannon, P. Ent. Soc. Wash. 33: 148,
1931.
- Aedes atlanticus**
biMatheson, Mos. North Amer.: 155-
156, 1929.
Stearns, MacCreary & Newhouse, Del.
B. 181: 81, 1933.
- Aedes atropalpus**
biMatheson, Mos. North Amer.: 138-
139, 1929.
- Aedes aurifer**
biMatheson, Mos. North Amer.: 134-
135, 1929.
Stearns, MacCreary & Newhouse, Del.
B. 181: 81, 1933.
- Aedes campestris**
Hearle, N.J. Mos. Exterm. Assoc. P.
19: 9, 1932.
Mail, Science n.s. 72: 170, 1930.
iMail, Mont. B. 288: 19-21, 1934.
biMatheson, Mos. North Amer.: 147-148,
1929.
- Aedes campestris (Woodland pool mosquito)**
Britton, Mos. Problem of Conn.: 13,
1930.
Headlee, N.J. Mos. Exterm. Assoc. P.
18: 54-55, 1931.
iMail, Mont. B. 288: 21-22, 1934.
biMatheson, Mos. North Amer.: 116-
117, 1929.
Stearns, MacCreary & Newhouse, Del.
B. 181: 74-75, 1933.
Twinn, N.J. Mos. Exterm. Assoc. P.
18: 13, 1931.
- Aedes cantator (Brown salt-marsh mosquito)**
Britton, Mos. Prob. of Conn.: 9-10, '31.
Headlee, N.J. Mos. Exterm. Assoc. P.
18: 40-43, 1931.
Johnson, Bost. Soc. Nat. Hist. B. 55:
18-19, 1930.
biMatheson, Mos. North Amer.: 131-
132, 1929.
iStearns, MacCreary & Newhouse, Del.
B. 181: 77-78, 1933.
- Aedes cataphylla**
Headlee, N.J. Mos. Exterm. Assoc. P.
19: 13, 1932.
iMail, Mont. B. 288: 22-23, 1934.
biMatheson, Mos. North Amer.: 150-
151, 1929.
- Aedes cinereus**
iMail, Mont. B. 288: 23, 1934.
biMatheson, Mos. North Amer.: 106-
108, 1929.
Stearns, MacCreary & Newhouse, Del.
B. 181: 74, 1933.

***Aedes cinereus* Cont'd**

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 15, 1931.

Aedes communis

Hearle, N.J. Mos. Exterm. Assoc. P.
19: 14, 1932.

iMail, Mont. B. 288: 23-24, 1934.

biMatheson, Mos. North Amer.: 117-
119, 1929.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 14, 1931.

Aedes (Ochlerotatus) crinifer

Shannon, P. Ent. Soc. Wash. 33: 149,
1931.

Aedes diautaeus

iMail, Mont. B. 288: 24, 1934.

biMatheson, Mos. North Amer.: 135-
136, 1929.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 14, 1931.

Aedes dorsalis

Hearle, N.J. Mos. Exterm. Assoc. P.
19: 8-9, 1932.

iHermes, J. Ec. Ent. 27: 1021-1026, '34.

biHermes, Wheeler & Hermes, J. Ec. Ent.
27: 995-998, 1934.

Hutchison, Cal. R. f. 1930/1931: 67,
1932.

iMail, Mont. B. 288: 25-27, 1934.

biMatheson, Mos. North Amer.: 127-
129, 1929.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 13, 1931.

Aedes dupreei

biMatheson, Mos. North Amer.: 154-
155, 1929.

Aedes excrucians

Hearle, N.J. Mos. Exterm. Assoc. P.
19: 10, 1932.

iMail, Mont. B. 288: 28, 1934.

biMatheson, Mos. North Amer.: 112-
114, 1929.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 12-13, 1931.

Aedes fitchii

Hearle, N.J. Mos. Exterm. Assoc. P.
19: 10, 1932.

iMail, Mont. B. 288: 28-29, 1934.

biMatheson, Mos. North Amer.: 114-
116, 1929.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 12-13, 1931.

Aedes flavescens

Hearle, N.J. Mos. Exterm. Assoc. P.
19: 8, 1932.

iMail, Mont. B. 288: 29-30, 1934.

biMatheson, Mos. North Amer.: 120-
122, 1929.

Aedes (Taeniorhynchus) fluviatilis

Shannon, P. Ent. Soc. Wash. 33: 149,
1931.

bSoper & Serafim, Amer. J. Trop. Med.
13: 589-590, 1933.

Aedes fulvithorax

Shannon, P. Ent. Soc. Wash. 33: 17,
146, 1931.

Aedes fulvus

Matheson, P. Ent. Soc. Wash. 36: 120,
1934.

Aedes (Ochlerotatus) hastatus

Shannon, P. Ent. Soc. Wash. 33: 149,
1931.

Aedes hirsuteron* (Floodwater mosquito)

Hearle, N.J. Mos. Exterm. Assoc. P.
19: 13, 1932.

iMail, Mont. B. 288: 30-31, 1934.

biMatheson, Mos. North Amer.: 137-
138, 1929.

Stearns, MacCreary & Newhouse, Del.
B. 181: 81, 1933.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 15-17, 1931.

Aedes idahoensis

Hearle, N.J. Mos. Exterm. Assoc. P.
19: 14, 1932.

iMail, Mont. B. 288: 31-32, 1934.

Aedes impiger

nMail, Mont. B. 288: 32, 1934.

biMatheson, Mos. North Amer.: 126-
127, 1929.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 14, 1931.

Aedes increpitus

iMail, Mont. B. 288: 32-33, 1934.

Aedes infirmatus

biMatheson, Mos. North Amer.: 156-
157, 1929.

Aedes intrudens

Hearle, N.J. Mos. Exterm. Assoc. P.
19: 13, 1932.

iMail, Mont. B. 288: 33, 1934.

biMatheson, Mos. North Amer.: 125-
126, 1929.

- Twinn, N.J. Mos. Exterm. Assoc. P.
18: 14, 1931.
- Aedes jacobinae**
bRussell, Rockefeller Found. R. f. 1932:
57-58.
- Aedes (Taeniorhynchus) jacobinae**
binSerafim & Davis, Ann. Ent. Soc. Amer.
26: 14-16, 1933.
- Aedes klotsi**
nMatheson, P. Ent. Soc. Wash. 35: 69-
71, 1933.
- Aedes (Conopostegus) leucocelaenus**
Shannon, P. Ent. Soc. Wash. 33: 147,
1931.
- Aedes mitchellae**
iBishopp, Cory & Stone, P. Ent. Soc.
Wash. 35: 4, 1933.
biMatheson, Mos. North Amer.: 157-
158, 1929.
- Aedes nearcticus**
iMail, Mont. B. 288: 34, 1934.
biMatheson, Mos. North Amer.: 144-
145, 1929.
- Aedes nigromaculis**
Hearle, N.J. Mos. Exterm. Assoc. P.
19: 9, 1932.
iMail, Mont. B. 288: 34-35, 1934.
biMatheson, Mos. North Amer.: 148-
149, 1929.
- Aedes (Ochlerotatus) nubilus**
Shannon, P. Ent. Soc. Wash. 33: 149-
150, 1931.
- Aedes (Ochlerotatus) oligopistus**
Davis, Ann. Ent. Soc. Amer. 26: 282-
283, 1933.
- Aedes pionips**
iMail, Mont. B. 288: 35, 1934.
- Aedes pullatus**
iMail, Mont. B. 288: 35-36, 1934.
biMatheson, Mos. North Amer.: 143-
144, 1929.
- Aedes punctor**
Hearle, N.J. Mos. Exterm. Assoc. P.
19: 13, 1932.
iMail, Mont. B. 288: 36-37, 1934.
biMatheson, Mos. North Amer.: 124-
125, 1929.
Stearns et al, Del. B. 181: 77, 1933.
Twinn, N.J. Mos. Exterm. Assoc. P.
18: 14-15, 1931.
- Aedes riparius**
Hearle, N.J. Mos. Exterm. Assoc. P.
19: 10-11, 1932.
iMail, Mont. B. 288: 37, 1934.
biMatheson, Mos. North Amer.: 122, '29.
- Aedes (Ochlerotatus) scapularis**
Shannon, P. Ent. Soc. Wash. 33: 149,
1931.
- Aedes schizopinax**
iMail, Mont. B. 288: 37-38, 1934.
- Aedes (Howardina) septemstriatus**
Shannon, P. Ent. Soc. Wash. 33: 147,
1931.
- Aedes (Ochlerotatus) serratus**
Shannon, P. Ent. Soc. Wash. 33: 149,
1931.
- Aedes simpsoni**
Rockefeller Found. R. f. 1929: 16.
- Aedes sollicitans (Salt-marsh mosquito)***
Bradley, Fico News 1(9): 4, 1933.
iBritton, Mos. Prob. of Conn.: 10-11,
1931.
Fisher, Nassau Co. Exterm. Comm. R.
f. 1934: 10-12.
- biGerry, Ann. Ent. Soc. Amer. 25: 39,
1932.
Griffitts, N.J. Mos. Exterm. Assoc. P.
18: 106-107, 1931.
Headlee, N.J. Mos. Exterm. Assoc. P.
18: 43-46, 1931.
Howard, Insect Menace: 130, 1931.
Johnson, Bost. Soc. Nat. Hist. B. 55:
18, 1930.
- biMatheson, Mos. North Amer.: 129-
131, 1929.
Merrill & Ten Broeck, Soc. Exp. Biol. &
Med. P. 32(3): 421-423, 1934.
Miller, N.J. R. 51: 123, 1930.
Riley & Johannsen, Med. Ent.: 219,
1932.
- iStearns, MacCreary & Newhouse, Del.
B. 181: 77, 1933.
Tulloch, Psyche 38: 38-39, 1931.
Twinn, N.J. Mos. Exterm. Assoc. P.
18: 20, 1931.
- Aedes spencerii**
Hearle, N.J. Mos. Exterm. Assoc. P.
19: 9, 1932.
iMail, Mont. B. 288: 38-39, 1934.
biMatheson, Mos. North Amer.: 149-
150, 1929.

Aedes spp.

Strong, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 190-192, 1930.

Twinn, Ent. Soc. Ont. R. 64: 78, 1933; R. 65: 127, 1934.

Aedes squamiger (California salt-marsh mosquito)*

iHermes, J. Ec. Ent. 27: 1021-1026, '34.
biMatheson, Mos. North Amer.: 133-134, 1929.

Aedes stimulans

iMail, Mont. B. 288: 39, 1934.

biMatheson, Mos. North Amer.: 32-33, 111-112, 1929.

iMatheson, Brunett & Brody, Poultry Sci. 10: 217-223, 1931.

Stearns, MacCreary & Newhouse, Del. B. 181: 74, 1933.

Twinn, N.J. Mos. Exterm. Assoc. P. 18: 11-12, 1931.

Aedes sylvestris see Aedes vexans**Aedes taeniorhynchus**

iBishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 3-4, 1933.

Bradley, Fico News 1(9): 4, 1933.

Davis & Shannon, Amer. J. Trop. Med. 11: 21, 1931.

biGerry, Ann. Ent. Soc. Amer. 25: 39-40, 1932.

Griffitts, N.J. Mos. Exterm. Assoc. P. 18: 107-108, 1931.

iHermes, J. Ec. Ent. 27: 1024-1026, '34.
biMatheson, Mos. North Amer.: 132-133, 1929.

bRussell, Rockefeller Found. R. f. 1932: 57-58.

biSerafin & Davis, Ann. Ent. Soc. Amer. 26: 13-19, 1933.

Shannon, P. Ent. Soc. Wash. 33: 148, 1931.

Siler, Panama Canal Health Dept. R. f. 1932, 41-42, 1933.

iStearns, MacCreary & Newhouse, Del. B. 181: 78, 1933.

Aedes (Finlaya) terreus

Shannon, P. Ent. Soc. Wash. 33: 147-148, 1931.

Aedes thibaulti

biMatheson, Mos. North Amer.: 153-154, 1929.

Aedes tortilis

biGerry, Ann. Ent. Soc. Amer. 25: 38-39, 1932.

Aedes trichurus

iMail, Mont. B. 288: 40, 1934.

biMatheson, Mos. North Amer.: 119-120, 1929.

Twinn, N.J. Mos. Exterm. Assoc. P. 18: 13, 1931.

Aedes triseriatus

iMail, Mont. B. 288: 40-41, 1934.

biMatheson, Mos. North Amer.: 142, '29.
Stearns, MacCreary & Newhouse, Del. B. 181: 81, 1933.

Twinn, N.J. Mos. Exterm. Assoc. P. 18: 22, 1931.

Aedes trivittatus

iMail, Mont. B. 288: 39-40, 1934.

biMatheson, Mos. North Amer.: 136-137, 1929.

Stearns, MacCreary & Newhouse, Del. B. 181: 81, 1933.

Aedes varipalpus (Western tree hole mosquito)*

biMatheson, Mos. North Amer.: 139-140, 1929.

Aedes vexans (Rain pool mosquito)

iBishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 3, 1933.

Cooley, Mont. R. 36: 84-85, 1929.

Ginsburg, N.J. Dept. Ent. R. f. 1929: 131, 1930.

Headlee, N.J. Mos. Exterm. Assoc. P. 18: 51-53, 1931.

Hearle, N.J. Mos. Exterm. Assoc. P. 19: 12, 1932.

McDaniel, Mich. C. B. 144: 22, 1932.

iMail, Mont. B. 288: 41-42, 53-59, '34.

Marlatt, USDA Ent. R. f. 1931: 73-74.

biMatheson, Mos. North Amer.: 108-111, 1929.

Miller, N.J. R. 50: 125-127, 1929; R. 51: 121-126, 1930; R. 52: 139, 1932.

iStearns, MacCreary & Newhouse, Del. B. 181: 74, 102-106, 1933.

Twinn, N.J. Mos. Exterm. Assoc. P. 18: 17-19, 1931.

Aedes vexans and Fowl pox

iMatheson et al, Poultry Sci. 10: 217-223, 1931.

- iMatheson, et al, N.Y. St. Vet. Coll.
R. f. 1931: 177-186, 1932.
- Aedes vittatus**
Rockefeller Found. R. f. 1929: 61.
- Aedoplophora major**
binJacot, Elisha Mitchell Sci. Soc. J. 48:
235-237, 1933.
- Aegeria**, see **Conopia**
- Aegeriidae**
Engelhardt, Bklyn. Ent. Soc. B. 26:
105-106, 1931.
- Aegiale (Acentrocne) hesperiaris**
biAncona, Mex. Univ. Nac. Inst. Biol.
Anal. 5: 193-200, 353-361, 1934
- Aegialia spp.**
nBrown, Can. Ent. 63: 13-19, 42-49, '31.
nFall, J. N.Y. Ent. Soc. 40: 183, 1932.
nSaylor, Pan-Pac. Ent. 10: 74-75, 1934.
- Aeginetia indica**
iLee, Internat. Soc. Sugar Cane Tech.
Cong. 4, B. 101 [P. Pt. 2]: 3-4, 1932.
- Aegithus rufipennis**
Smyth, J. Kans. Ent. Soc. 7: 112, 1934.
- Aegoschema decipiens**
Knull, Ent. News 45: 210, 1934.
- Aelia americana**
biBaker, Can. J. Res. 4: 196-197, 1931.
- Aenasia sp.**
Fullaway, Hawaiian Ent. Soc. P. 8: 6,
1932.
- Aenictomyia**
nBrues, Psyche 37: 163-166, 1930.
- Aenictus spp.**
binWheeler, J. N.Y. Ent. Soc. 38: 193-
212, 1930.
- Aenoplegimorpha micator**
Essig & Michelbacher, Cal. B. 567: 62,
1933.
- Aenoplex carpocapsae**
iMcClure, Ann. Ent. Soc. Amer. 26:
345-347, 1933.
McClure, Ent. News 44: 48-49, '33.
- Aenoplex longicauda**
nWalley, Can. Ent. 66: 240-241, 1934.
- Aenoplex phryganidiae**
Keifer & Jones, Cal. Agr. Mo. B. 22,
387, 1933.
- Aeolagrimon fulvum**
nNeedham, Amer. Mus. Nov. 664: 5-6,
1933.
- Aeolopos—Key**
Forbes, N.Y. Acad. Sci. Sci. Surv.
P.R. 12: 63-64, 1930.
- Aeolothrips aureus**
nMoulton, Pan-Pac. Ent. 7: 122-123,
1931.
- Aeolothrips fasciatus**
Bailey, Hilgardia 7: 500, 1933.
- Aeolothrips fuscus**
inWatson, Univ. Okla. Biol. Surv. Pub.
3: 340, 1931.
- Aeolothrips kuwani**
Bailey, Ent. News 44: 15, 1933.
Bailey, Hilgardia 7: 500-501, 1933.
- Aeolothrips melaleucus**
Ross & Putnam, Ent. Soc. Ont. R. 64:
37, 1933.
- Aeolus dorsalis**
McClure, Ent. News 44: 145-147, 1933.
- †Aeroplane—Pest carrier**
Brown, Cit. Ind. 13(2): 11, 1932.
iCoad, USDA YB f. 1931: 320-323.
iJohnston, USDA YB f. 1934: 142-144.
Lloyd, Ind. St. Bd. Health Mo. B. 35:
81-82, 1932.
iMontgomery, Cit. Ind. 10(3): 14, 1929.
Sasscer, USDA Off. Rec. 9(45): 8, 1930.
J. Amer. Med. Assoc. 99: 1877, 1932.
Ind. St. Bd. Health Mo. B. 34: 86, '31.
- Aeroplane and insects**
Aldrich, J. Ec. Ent. 27: 239, 1934.
Klein, Cal. Cult. 74: 434, 1930.
Cit. Leaves 10(5): 8, 1930; 14(7): 19,
1934.
USDA Off. Rec. 10(25): 188, 1931.
- Aeroplane dusting**
Adams, Fla. Grow. 42(4): 11, 1934.
DeBusk & Yothers, Cit. Ind. 15(5): 26,
1934.
iDippold, Seed World 31(4): 18, 1932.
iHopping, Timberman 32(3): 24, 48, 50,
1931.
iKeen, Airway Age 11: 931-933, 1930.
Lathrop & Nickels, USDA C. 123,
1930. 14p.
Lockwood, Cal. Cult. 76: 146, 501, 512-
513, 1931.
Mackie, Cal. Agr. Mo. B. 23: 408-411,
1934.
- iMetcalf & Flint. Fund. of Ins. Life, ed.**
1: 437-438, 1932.
- iNash, La Hacienda 25: 454-455, 1930.**

Aeroplane dusting *Cont'd*

iSwaine, Can. Dept. Nat. Defence. R. on Civil Aviation & Civil Gov't Air Operation f. 1929: 1-16, 1930.

iSwaine, Illus. Can. For. & Outdoors 26: 71-72, 1930.

iSwaine, Pulp & Paper Mag. Can. 29: 123-125, 1930.

Swaine, Pac. Sci. Cong. 5, P. 5: 3388-3390, 1934.

Twinn, N.J. Mos. Exterm. Assoc. P. 18: 37-39, 1931.

Wolcott, Can. Field-Nat. 46: 176, 1932.

Aeroplane inspection

Fleury, Cal. Dept. Agr. Sp. Pub. 115: 154, 1932.

iGriffitts & Griffitts, U.S. Pub. Health R. 46: 2775-2782, 1931.

iMiller, N.J. Mos. Exterm. Assoc. P. 19: 73-79, 1932.

Cal. Agr. Mo. B. 20: 163, 1931.

†Aeroplane spraying

Ginsburg, Science n.s. 75: 542, 1932.

Ginsburg, Sci. News Letter 22: 112, '32.

iHerbert, J. Ec. Ent. 26: 1052-1056, '33.

bHerbert, J. Ec. Ent. 27: 1040-1042, '34.

Herbert, Pac. Rur. Press 127: 154, '34.

Vannote, N.J. Mos. Exterm. Assoc. P. 19: 97-102, 1932.

Aeschrithmysus sp.

nWilliams, Hawaiian Ent. Soc. P. 8: 32, 1932.

Aeshna dugesi

Gloyd, Ent. News 43: 189-190, 1932.

Aeshna juncea americana

biWalker, Can. Ent. 66: 267-274, 1934.

Aeshna manni

inWilliamson & Williamson, Mich. Univ. Mus. Zool. Occ. Papers 216: 26-34, 1930.

Aeshna subarctica

Dow, Bost. Soc. Nat. Hist. B. 68: 13, 1933.

biWalker, Can. Ent. 66: 267-274, 1934.

Aeshna umbrosa

bMontgomery, Ind. Acad. Sci. P. 39: 312-313, 1930.

Aeshnidae

iAaron, Nature Mag. 22: 111, 1933.

Africablatta

nRehn, P. Acad. Nat. Sci. Phila. 84: 415-417, 1933.

African hut tick, *see* Ornithodoros moubata

Africodexia

nTownsend, J. N.Y. Ent. Soc. 40: 462, 1932.

Africomusca

nTownsend, J. N.Y. Ent. Soc. 40: 441, 1932.

Agabus spp.

Brown, Can. Ent. 62: 88-89, 1930; 63: 115-116, 1931; 64: 4-5, 1932.

nCarr, Can. Ent. 62: 278-279, 1930.

nWallis, Can. Ent. 65: 268-271, 1933.

Agallia spp.

iDeLong & Davidson, Ohio J. Sci. 31: 377-385, 1931.

biOman, USDA TB 372, 1933. 94p.

inOman, Ann. Ent. Soc. Amer. 27: 453-457, 1934.

Agallia sanguinolenta, *see* Aceratagallia sanguinolenta

Agallia sticticollis, *see* Agalliana sticticollis
Agalliana

binOman, USDA TB 372: 70-71, 1933.

Agalliana sticticollis

Heald, Man. of Pl. Dis. ed. 2: 283, 1933.

iOman, USDA TB 372: 70-71, 1933.

Agalliopsis spp.

binOman, USDA TB 372: 8-24, 1933.

inOman, Ann. Ent. Soc. Amer. 27: 445-453, 1934.

Agamonema infestans

nChristie, J. Parasit. 16: 255-256, 1930.

Agapostemon radiatus

Rau, Acad. Sci. St. Louis Trans. 28: 221, 1934.

Agathidium spp.

nBrown, Can. Ent. 62: 89, 1930; 65: 46, 1933.

nFall, Ent. Amer. n.s. 14: 99-131, 1933.

Agelastica coerulea

bClausen, USDA C. 168: 22, 1931.

Agellus

nDeLong & Davidson, Ohio J. Sci. 33: 210, 1933.

Ageniella spp.

nBanks, Bklyn. Ent. Soc. B. 26: 133-134, 1931.

nBrimley, Ent. News 45: 41-43, 1934.

Agis

nRehn, P. Acad. Nat. Sci. Phila. 84: 464-465, 1933.

- Aglais antiopa* (Mourning-cloak butterfly)***
 iAllen, Nature Mag. 17: 222-223, 1931.
 iBratley, Fla. Ent. 15: 7, 1931.
 iBritton, Conn. B. 344: 107, 1933.
 iMcDaniel, Mich. Sp. B. 243: 43-44, '33.
 iSaunders, N.Y. St. Mus. Hdbk. 13: 84-90, 1932.
 biSoraci, N.J. Dept. Agr. C. 243: 14-15, 1934.
 iWeed, Insect Ways: 263-265, 1930.
- Aglais californica* (California tortoise shell butterfly)**
 iComstock, So. Cal. Acad. Sci. B. 31: 17, 1932.
 Essig, J. Ec. Ent. 25: 1108, 1932.
 Keifer, Cal. Agr. Mo. B. 21: 353, 1932.
 O'Byrne, Bklyn. Ent. Soc. B. 27: 185, 1932.
 Storer, Pan-Pac. Ent. 9: 67-68, 1933.
- Aglais j-album***
 iSaunders, N.Y. St. Mus. Hdbk. 13: 94-98, 1932.
- Aglais milberti* (Small tortoise-shell butterfly)**
 iSaunders, N.Y. St. Mus. Hdbk. 13: 91-94, 1932.
- Aglaopteryx* spp.**
 inRehn, Trans. Amer. Ent. Soc. 58: 106-118, 1932.
- Aglossa furva***
 inHeinrich, PUSNM 79(13): 5-6, 1931.
- Aglycyderidae*—Marquesas**
 iPerkins, Bernice P. Bishop Mus. B. 98: 17-21, 1932.
- Agonischius muzzalli, praeustus***
 nFleutiaux, Hawaiian Ent. Soc. P. 8: 485-486, 1934.
- Agonoderus pallipes***
 Bigger, Ill. St. Acad. Sci. Trans. 26: 138-139, 1934.
 Fall, Ent. News 44: 102-104, 1933.
- Agonopteryx serrae***
 inClarke, Can. Ent. 65: 84-85, 1933.
- Agonum* (*Anchomenus*) *extensicolle cubanum***
 nDarlington, Psyche 41: 97-98, 1934.
- Agrarialia***
 nCurran, Fam. & Gen. North Amer. Diptera: 469, 1934.
- Agrilus angelicus* (Pacific oak-twig girdler)**
 Burke, Cal. Agr. Mo. B. 21: 368, 1932.
- Burke, Nat. Shade Tree Conf. P. 9: 51-52, 1933.
- Agrilus anxius* (Bronzed birch borer)***
 iBritton, Conn. B. 344: 85-86, 1933.
 iChambers & Thompson, Wis. Dept. Agr. B. 123: 33-35, 1931; B. 145: 41-42, 1933.
 Davis, Ind. Ext. B. 168: 18-19, 1930.
 Decker, Iowa St. Hort. Soc. Trans. 68: 155, 1933.
 Felt, J. Ec. Ent. 26: 47, 1933.
 Felt & Bromley, Nat. Shade Tree Conf. P. 6: 16, 1930.
 Felt & Bromley, J. Ec. Ent. 25: 45, '32.
 iMcDaniel, Mich. Sp. B. 238: 19-21, '33.
 Marlatt, USDA Ent. R. f. 1930: 49; R. f. 1931: 59.
 Orr, Minn. Hort. 60: 221, 1932.
 iPeirson, Field Book of Destruct. For. Ins. ed. 2: 14, 1932.
- Agrilus arcuatus***
 Decker, Iowa St. Hort. Soc. Trans. 68: 155, 1933.
- Agrilus arizonus, audax***
 nKnull, Ent. News 45: 11-12, 208-209, 1934.
- Agrilus aztecus***
 nFisher, PUSMN 82(27): 20-22, 1933.
- Agrilus bilineatus* (Two-lined chestnut borer)***
 Britton, Conn. B. 344: 95, 1933.
 Decker, Iowa St. Hort. Soc. Trans. 68: 151-155, 1933.
 Felt, J. Ec. Ent. 26: 47, 977, 1933.
 Felt & Bromley, Nat. Shade Tree Conf. P. 6: 15, 1930.
 Felt & Bromley, J. Ec. Ent. 25: 44-45, 1932.
 Hamilton, Nat. Shade Tree Conf. P. 10: 32-36, 1934.
 Lipman, N.J. R. 55: 45, 1934.
 McDaniel, Mich. Sp. B. 238: 21, 1933.
- Agrilus communis* ab. *rubicola* (Rose stem girdler)**
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 56-57, 1934.
 iHutson, Mich. Quar. B. 15: 68-70, '32.
 Hutson, Midwest Fruitman, 6(9): 10, 1933.
 iMcDaniel, Mich. Quar. B. 14: 89-91, 1931.
 iPettit, Mich. R. 46: 228-229, 1933.

- Agrilus communis* ab. *rubicula* *Cont'd*
 Twinn, Ent. Soc. Ont. R. 64: 69, 1933;
 R. 65: 117, 1934.
 Zappe, Conn. B. 327: 579, 1931.
- Agrilus dampfi*
 nFisher, PUSNM 82(27): 27-29, 1933.
- Agrilus extraneus*
 Bianchi, Hawaiian Ent. Soc. P. 8: 228,
 1933.
 nFisher, Hawaiian Ent. Soc. P. 8: 249-
 250, 1933.
- Agrilus fisheri*, *see* *Agrilus fisheriana*
- Agrilus fisheriana*
 Knull, Ent. News 41: 3, 1930.
- Agrilus hintoni*, *infidelis*
 nFisher, PUSNM 82(27): 7-8, 24-25,
 1933.
- Agrilus mali*
 bClausen, USDA C. 168: 24, 1931.
- Agrilus megerlei*, *montezuma*
 nFisher, PUSNM 82(27): 9-10, 32-34,
 1933.
- Agrilus nodicornis*
 nFall, Pan-Pac. Ent. 8: 82-83, 1931.
- Agrilus parapubescens*
 nKnull, Ent. News 45: 68-69, 1934.
- Agrilus piceolus* 17-19, *prodigiosus* 19-20,
proximulus 14-15, *resplendens* 12-
 14
 nFisher, PUSNM 82(27): 1933.
- Agrilus ruficollis* (Red-necked cane borer)*
 Bourne, Mass. Ext. Leaf. 48: 14, 1933.
 Britton, Conn. B. 344: 87-88, 1933.
 Caesar, Ont. B. 355: 28-29, 1930.
 Chambers & Thompson, Wis. Dept.
 Agr. B. 123: 22, 1931.
 iChambers & Thompson, Wis. Dept.
 Agr. B. 145: 30, 1933.
 Crosby, Rankin & Mills, N.Y. (C.)
 Ext. B. 306: 9, 1934.
 Dean, Kans. St. Hort. Soc. Bien. R.
 40: 151, 1930.
 Houser, Ohio B. 454: 75, 1930.
 Hutson, Mich. Quar. B. 14: 267-269,
 1932.
 Hutson, Midwest Fruitman 5(12): 9,
 1932.
 Loree, Mich. C. B. 152: 28, 1934.
 iPierstorff & Parks, Ohio Pl. Dis. & Ins.
 Notes 1(4): 3-4, 1930.
 iPiller, Wis. Hort. 23: 137, 1933.
- Twinn, Ent. Soc. Ont. R. 65: 121, 1934.
- Agrilus rufobrunneus* 5-7, *semiopacus* 29-
 30, *silvicola* 10-12
 nFisher, PUSNM 82(27): 1933.
- Agrilus sinuatus* (Sinuate pear tree borer)*
 Britton, Conn. B. 344: 143, 1933.
 Elliott, Gard. Club Amer. B. ser. 4 (12):
 95-96, 1930.
 iGlasgow, N.Y. (Gen.) B. 648, 1934.
 31p.
- Agrilus squaliformis*
 Smyth, J. Kans. Ent. Soc. 7: 111-112,
 1934.
- Agrilus subcinctus*
 Knull, Ent. News 43: 45, 1932.
- Agrilus tejupilcoensis* 31-32, *tinctipennis*
 15-17, *velasco* 22-24, *vinctus* 26-27
 nFisher, PUSNM 82(27): 1933.
- Agrilus viridis fagi*, *see* *Agrilus communis*
 ab. *rubicola*
- Agrilus wenzeli*
 nKnull, Ohio J. Sci. 34: 333-334, 1934.
- Agriolimax agrestis* (Garden slug)
 Craig, Col.-Wyo. Acad. Sci. J. 1(3): 60,
 1931.
 iDustan, Can. Dept. Agr. B. 161 n.s.:
 23, 1932.
 McDaniel, Mich. Sp. B. 214: 28, 1931.
 Mote, Oreg. St. Hort. Soc. R. 24: 90-
 91, 1932.
- Agriolimax campestris*
 Russell, Wis. B. 410: 45-46, 1930.
- Agriolimax* spp.
 Bauer, Flow. Grow. 18: 25, 1931.
 Britton, Conn. B. 344: 124, 1933.
 Compton, Ill. C. 391: 25, 1932.
 Doane, Common Pests: 300-307, 1931.
 iDustan, Can. Dept. Agr. Ent. B. 32:
 23, 1932.
- Agriion (Enallagma) civile*
 iAaron, Nature Mag. 22: 112, 1933.
- Agriion maculatum*
 bByers, Univ. Fla. Pub. Biol. Sci. ser.
 1(1): 265, 1930.
- Agriion* sp.
 Williams, Hawaiian Ent. Soc. P. 8: 18,
 1932.
- Agriotella* spp.
 nBrown, Can. Ent. 65: 179-180, 1933.
- Agriotes arcanus*
 nBrown, Can. Ent. 65: 178-179, 1933.

- Agriotes bivittatus* 448, *blaisdelli* 450-451, *criddlei* 448-449, *cylindricus* 447-448
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 1932.
- Agriotes mancus* (Wheat wireworm)*
 Hawkins, J. Ec. Ent. 23: 349-352, '30.
 Hawkins, Maine B. 357: 233, 1930.
 Hawkins, Maine R. 46: 233, 1930.
 iHawkins, Maine B. 377: 403-405, 1934.
 MacLeod, N.Y. (C.) R. 46: 111-112, 1933.
 MacLeod, Amer. Potato J. 11: 61-65, 1934.
 iMacLeod & Rawlins, N.Y. (C.) B. 569, 3-5, 1933.
 bRawlins, J. Ec. Ent. 27: 308-314, 1934.
 bSeamans, Pac. Sci. Cong. 5, P. 5: 3477-3478, 1934.
 Thomas, Penn. St. Col. B. 259: 22, '30.
- Agriotes porosus*
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 449-450, 1932.
- Agriotes quebecensis* 176-177, *tardus* 177-178
 nBrown, Can. Ent. 65: 1933.
- Agriotypus*, *A. gracilis*
 biClausen, P. Ent. Soc. Wash. 33: 29-36, 1931.
- Agromyza angelicae*
 nFrost, Ent. News 45: 40-41, 1934.
- Agromyza baptisiae*, *A. cinereifrons*
 nFrost, Can. Ent. 63: 275-277, 1931.
- Agromyza commelinae*, *ipomaeae*
 nFrost, Ent. News 42: 72-76, 1931.
- Agromyza maculosa*
 bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 40, 1931.
- Agromyza parvicornis* (Corn blotch leaf miner)*
 Milord, Rev. de Agr. Cuba 12(4): 38, 1930.
 Watson, Fla. B. 232: 57-58, 1931.
- Agromyza pusilla* (Serpentine leaf miner)*
 Buchanan & Stevenson, Iowa R. f. 1933: 71.
 Harris & Tate, J. Ec. Ent. 26: 515-516, 1933.
 Watson, Fla. B. 232: 62-63, 1931.
- Agromyza simplex* (Asparagus miner)*
 Drake & Harris, Iowa C. 134: 10-11, 1932.
- Agromyza* sp.
 Swezey, Hawaiian Ent. Soc. P. 7: 343, 1931.
- Agromyza virens*
 Illingworth, Hawaiian Ent. Soc. P. 7: 359-360, 1931.
 Swezey, Hawaiian Ent. Soc. P. 7: 374, 381, 483, 1931; P. 8: 362, 1934.
- Agromyza viridis*
 nFrost, Can. Ent. 63: 277, 1931.
- Agromyzidae*
 Frost, Can. Ent. 63: 275-277, 1931.
 Frost, Ent. News 42: 72-76, 1931.
- Agrotini*
 McDunnough, Can. Ent. 66: 202-203, 1934.
- Agrotiphila churchillensis*
 nMcDunnough, Can. Ent. 64: 105-106, 1932.
- Agrotis bicarnea*
 Phipps, Maine B. 356: 151-154, 1930.
- Agrotis c-nigrum*, *see* *Graphiphora c-nigrum*
- Agrotis clandestina*
 bCrumb, Bklyn. Ent. Soc. B. 27: 86-87, 1932.
- Agrotis fennica*, *see* *Actabia fennica*
- Agrotis kingi*
 nMcDunnough, Can. Ent. 64: 106, 1932.
- Agrotis normaniana*, *see* *Graphiphora normaniana*
- Agrotis orestica*
 inForbes, Ent. Amer. n.s. 14: 21-22, '33
- Agrotis orthogonia* (Pale western cutworm)*
 Atkinson, Sci. Agr. 12: 201, 1931.
 biCook, Mont. B. 225, 1930. 79p.
 Cooley, Mont. R. 36: 85, 1929.
 Cooley, Mont. B. 238: 11, 1930.
 biEshbaugh, Okla. Panhandle B. 45, 1933. 14p.
 King, Ent. Soc. Ont. R. 61: 23, 1931.
 biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
 Pack, Utah B. 216: 18, 1930.
 iSeamans, Can. Dept. Agr. Pam. n.s. 71, 1930. 8p.
 bSeamans, Pac. Sci. Cong. 5, P. 5: 3475-3476, 1934.
 Strand, Mont. B. 269: 6-8, 1932; B. 294: 32-33, 1934.

- Agrotis orthogonia* *Cont'd*
 Strange, Searle Grain Co. Wheat stem sawfly: [5-6, 1931].
biStrickland, Alberta Univ. Coll. Agr. B. 24: 28-31, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 65, 114, 1933.
biWall, J. Ec. Ent. 25: 1043-1048, 1932.
 Weir, Can. Min. Agr. R. f. 1930/1931: 124; R. f. 1931/1932: 166-167, 189; R. f. 1932/1933: 47.
- Agrotis phyllophora*, *see* *Heptagrotis phyllophora*
- Agrotis plebeia*, *see* *Hemigraphiphora plebeia*
- Agrotis rubifera*, *see* *Diarsia rubifera*
- Agrotis unicolor* (W-marked cutworm)*
 Cook, Can. Ent. 62: 268-269, 1930.
 Phipps, Maine B. 356: 162-163, 1930.
- Agrotis vetusta* (Spotted-legged cutworm)
 Crumb, Bklyn. Ent. Soc. B. 27: 81, '32.
- Agrotis volubilis*
 McDunnough, Can. Ent. 64: 107, 1932.
- Agrotis ypsilon* (Black cutworm)*
 Davis, Ind. Acad. Sci. P. 39: 295, 1930.
 Davis, Ind. Acad. Sci. P. 43: 196-197, 1933.
 Gilliatt, Ent. Soc. Ont. R. 60: 11, 1930.
 Gorham, Ent. Soc. Ont. R. 60: 63-65, 1930.
 Howard, Hist. of Appl'd Ent.: 367, '30.
 McDaniel, Mich. Sp. B. 214: 79, 1931.
biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
 Pepper, Can. Ent. 64: 241, 1932.
 Pierstorff, Ohio Ext. Serv. Pl. Dis. & Ins. Notes 2(2): 2, 1931.
biSatterthwait, J. Agr. Res. 46: 517-530, 1933.
- Agrotisia evelinae*
nBenjamin, Pan-Pac. Ent. 9: 4-5, 1933.
- Agrypnus lopezi*
nFleutiaux, Hawaiian Ent. Soc. P. 8: 477, 1934.
- Ahasverus advena*
 Back & Cotton, USDA FB 1260 rev.: 24, 1930.
- Air sac mite*, *see* *Cytolichus nudus*
- Airora cylindrica*
 Knull, Ent. News 45: 209, 1934.
- Airplane*, *see* *Aeroplane*
- †*Alabama argillacea* (Cotton leaf worm)*
 Brannen, Ark. B. 297: 30-31, 1934.
iChamplain, Nature Mag. 20: 217, 1932.
 Colón, P.R. Dept. Agr. & Com. Inf. Anal. Sp. ed. f. 1931/2: 104-105.
iDavis & Gardner, Ind. Ext. B. 176: 11, 1931.
iFolsom, USDA FB 1688: 4-6, 1932.
 Harned, USDA YB f. 1933: 127.
 Hutson, Mich. Sp. B. 244: 28, 1933.
 King & Loomis, USDA C. 206: 12, '32.
 Leonard, Rev. Agr. P.R. 25: 135-136, 1930.
 Leonard, P.R. Ins. R. f. 1929/1930: 114, 1931.
 Leonard, J. N.Y. Ent. Soc. 40: 270, '32.
 Leonard, P.R. Dept. Agr. J. 16: 130, 1932.
 McDowell, Tex. B. 294: 19, 1934.
 Marlatt, USDA Ent. R. f. 1930: 40.
- biMex*. Agr. & Fomento. Principales Plagas: 140, 1930.
iRodríguez, P.R. Ins. C. 102: 27-30, '33.
 Ross & Putnam, Ent. Soc. Ont. R. 64: 40, 1933.
 Sanderson, Ins. Pests Farm, ed. 3: 274-275, 1931.
 Sepulveda, Rev. Agr. P.R. 26: 88, 1931.
 Stansel & Wyche, Tex. B. 466: 21, '32.
 Wolcott, J. Ec. Ent. 24: 133, 1931.
biWolcott, Ec. Ent. of West Indies: 277-285, 1933.
- Alaptus borinquensis*, *A. minutus*
nDozier, P.R. Dept. Agr. J. 16: 89-91, 1932.
- Alapus attenuatus*
inLawson, J. Kans. Ent. Soc. 5: 29-31, 1932.
- Alapus marcidus*
inBeamer & Tuthill, J. Kans. Ent. Soc. 7: 1-2, 1934.
- **Alaska spruce beetle*, *see* *Dendroctonus borealis*
- Alaus farinulentus*, *A. ferrugineus*
nFleutiaux, Hawaiian Ent. Soc. P. 8: 475, 478, 1934.
- Alaus myops*
 Knull, Ent. News 43: 43, 1932.
- Alaus oculatus* (Eyed click beetle)*
iCreutz, Nature Mag. 18(1): 28, 1931.
 McClure, Can. Ent. 44: 145-147, 1933.

- Alberus clisiocampae**
Baker, USDA C. 295: 8-9, 1933.
- Alcathoe caudata (Clematis borer)**
Britton, Conn. B. 344: 96, 1933.
- Alcestis costalis, A. romani**
inMuir, Hawaiian Ent. Soc. P. 7: 475-476, 1931.
- Alchisma elevata**
nGoding, Amer. Mus. Nov. 421: 10-11, 1930.
- Alchisme projecta**
inFunkhouser, J. N.Y. Ent. Soc. 38: 414, 1930.
- Alcidamea brachyodonta**
nCockerell, Ent. News 44: 205-209, '33.
- Alcidamea helenae**
nCockerell, Amer. Mus. Nov. 732: 6, '34.
- Alcidamea mucronata**
nCockerell, Bklyn. Ent. Soc. B. 29: 18, 1934.
- Alconeura balli, A. dodonana**
nBeamer, Can. Ent. 66: 17, 1934.
- Alconeura fulminea, A. quadrimaculata**
inLawson, Bklyn. Ent. Soc. B. 25: 44-46, 1930.
- *Alder flea beetle, see Altica bimarginata**
- Alectryon insects**
Swezey, Hawaiian Ent. Soc. P. 8: 385, 1934.
- Aleomyia caurina,**
inCurran, Amer. Mus. Nov. 556: 2-3, 13, 1932.
- Aleomyia rufipes**
Curran, Amer. Mus. Nov. 526: 2-3, '32.
- Aletia ferruginea**
inSwezey, Hawaiian Ent. Soc. P. 8: 197, 1932.
- Aleurocanthus spiniferus—Parasites**
Kuwana, Pac. Sci. Cong. 5, P. 5: 3521-3523, 1934.
- †Aleurocanthus woglumi (Citrus blackfly)***
iAgeta, Rev. de Agr. Cuba 14(5): 42-43, 1932.
Berger, Cit. Ind. 14(3): 24, 1933.
Berry, Rev. de Agr. Cuba 12(1): 23-27, 1930.
Brown, Cal. Cit. 17: 168, 1932.
Brunner & Arango, Rev. de Agr. Cuba 14(2): 81-87, 1932.
biCamp & Wilmot, J. Ec. Ent. 25: 476-483, 1932.
- Compere, Cal. Cit. 15: 533, 1930.
Hecke, Cal. Dept. Agr. Sp. Pub. 92: 9, 1929.
Jones, J. Ec. Ent. 23: 650, 1930.
Newell, Fla. St. Pl. Bd. Bien. R. 9: 21-22, 1933.
Rohwer, P. Ent. Soc. Wash. 36: 263, 1934.
Watson & Berger, Fla. Ext. B. 67: 59, 1932.
Yonge, Fla. St. Pl. Bd. Mo. B. 15: 137-139, 1931.
- Aleurocanthus woglumi—Parasites**
Berry, Rev. de Agr. Cuba 12(1): 25-26, 1930.
Brown, Fla. Grow. 29(11): 8, 10, 1931.
Bruner, Rev. de Agr. Cuba 11(12): 7-8, 1930.
- biClausen & Berry, USDA TB 320, 1932.**
59p.
- iOtero, Rev. de Agr. Cuba 15(5): 47-51, 1934.
- iSlawter, Pop. Sci. Month. 121(1): 44-45, 109-110, 1932.
- USDA YB f. 1932: 71.
- Aleurocanthus woglumi—Quarantine**
iBrown, Fla. Grow. 39(11): 8, 10, 1931.
Cal. Cult. 77: 427, 1931.
- Aleurodes chittendeni, see Dialeurodes chittendeni**
- Aleurodes citri, see Dialeurodes citri**
- Alerodes hibisci**
Pemberton, Hawaiian Ent. Soc. P. 8: 510, 1934.
- Aleurodicus cardini**
Hyslop, J. Ec. Ent. 27: 564, 1934.
- Aleurodidae**
Hawaiian Ent. Soc. P. 8: 378, 1934.
- Aleuron neglectum paraguayana**
nClark, N. Eng. Zool. Club P. 12: 79-80, 1931.
- Aleurothrixus floccosus—Parasites**
Dozier, P. Ent. Soc. Wash. 34: 118-122, 1932.
- Aleurothrixus howardi (Woolly whitefly)***
Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(5): 61, 1931.
iWatson & Berger, Fla. Ext. B. 67: 55-58, 1932.

Alexiopogon

nCurran, Fam. & Genera of North Amer.

Diptera: 183, 1934.

Alfalfa and malaria

biStratman-Thomas, Amer. J. Hyg. 14: 394-410, 1931.

Alfalfa aphid, see Illinoisia pisi***Alfalfa caterpillar, see Eurygaster eurytheme****Alfalfa eelworm, see Tylenchus dipsaci****Alfalfa insects**

Blanchard, USDA C. 307: 1934. 6p.

bBlanchard & Conger, J. Ec. Ent. 25: 1059-1070, 1932.

Cardon, Utah B. 250: 48-49, 1934.

Cartwright et al, Cal. Agr. Mo. B. 22: 158-160, 1933.

Doten, Nev. R. f. 1930: 18, 1931.

Duggar, Ala. Poly. R. 40: 26, 1929.

iHoerner, Col. St. Ent. C. 58: 1933. 12p.

Jewett, Ky. Res. B. 329, 1932. 172p.

Leonard, P.R. Ins. R. f. 1929/30: 119, 1931.

biMarshall & Wilbur, J. Ec. Ent. 27: 807-814, 1934.

Michelbacher & Essig, J. Ec. Ent. 27: 960-966, 1934.

biPalm, Ent. Soc. Ont. R. 65: 54-58, '34.

Sein, Rev. Agr. P.R. 25: 91, 1930.

Schweis, Nev. R. f. 1931: 14, 1932.

Shull, Rice & Cline, J. Ec. Ent. 27: 265-269, 1934.

Smith, Kans. Bien. R. 6: 93-95, 1932.

bSorenson, Utah C. 98, 1932. 26p.

Wilbur, Kans. Farm. 68(8): 21, 30, '30.

Willard, Thatcher & Cutler, Ohio B. 540: 119-126, 1934.

Alfalfa looper, see Autographa californica*Alfalfa plant bug, see Adelphocoris lineolatus****Alfalfa seed chalcid fly, see Bruchophagus gibbus*****Alfalfa snout beetle, see Brachyrhinus ligustici****Alfalfa stem nematode, see Ditylenchus dipsaci*****Alfalfa webworm, see Loxostege comitatalis*****Alfalfa weevil, see Hypera postica****Aligia spp.**

nBall, Pan-Pac. Ent. 7: 119-121, 1931.

nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 37, 1933.

Alitophasia

nTownsend, Ent. News 45: 213, 1934.

Allacta, A. modesta

Rehn, Trans. Amer. Ent. Soc. 57: 297-301, 1931.

Allactina, A. jacobsoni

nHebard, P. Acad. Nat. Sci. Phila. 81: 18-20, 1929.

Allandrus bifasciatus

Knoll, Ent. News 45: 211, 1934.

Allandrus populi

inPierce, PUSNM 77(17): 19-20, 1930.

Allantus cinctus (European rose sawfly)

Gibson, Can. Dept. Agr. B. n.s. 99 rev.: 29, 1934.

Allaporus

nBanks, Psyche 40: 2-3, 1933.

Allocapnia

Claassen, Plecoptera Nymphs of Amer.: 112-116, 1931.

Allocoris pulicaria (Negro bug)*

Brooks, Watson & Mowry, Fla. Co-op. Ext. B. 63: 51, 1932.

Watson, Fla. B. 232: 91, 1931.

Allognota semivitta

Huckett, Trans. Amer. Ent. Soc. 60: 60, 1934.

Allograpta cubana, A. fasciata

nCurran, Amer. Mus. Nov. 519: 3-5, '32.

Allograpta obliqua

Fluke, J. N.Y. Ent. Soc. 42: 135, 1934.

Allonyx cinerescens

nFall, Can. Ent. 62: 254-255, 1930.

Alloperia caudata, A. chloris

inFrison, Can. Ent. 66: 27-29, 1934.

Allorhina nitida, see Cotinis nitida**Allotrips africanus**

inFaure, Bklyn. Ent. Soc. B. 28: 57-59, 1933.

Allotrigis

nDrake, Bklyn. Ent. Soc. B. 25: 269-270, 1930.

Allotropa sp.

Gilliat, N.S. Fr. Grow. Assoc. R. 71: 45, 1934.

Alloydia, A. cacaotana

nNeedham, Can. Ent. 64: 275, 1932.

Almond moth, see Ephestia cautella Walk.*Alobates spp.—America**

iCooper, Bklyn. Ent. Soc. B. 28: 105-107, 1933.

Aloha myoporicola—Molokai

Swezey, Hawaiian Ent. Soc. P. 7: 341, 1931.

Allophosternum, A. foliicola

nCushman, PUSNM 82(14): 7-9, 1933.

Alphis punctella, see Tuberculatus punctatella**Alphitobius piceus**

Gray, Ent. Soc. Ont. R. 65: 67, 1934.

†Alsophila pometaria (Harr.) (Fall canker-worm)*

Bailey, Vt. St. Comm. Agr. Bien. R. 17: 74, 1934.

Britton, Conn. Pom. Soc. P. 38: 29, '29.

Britton, Conn. B. 344: 72, 1933.

Caesar, Ont. B. 356: 35-37, 1930.

Engelhardt, Bklyn. Ent. Soc. B. 28: 172-173, 1933.

Felt, J. Ec. Ent. 26: 1030, 1933.

biLockwood, Cal. Agr. Mo. B. 22: 331-333, 1933.

iMcDaniel, Mich. Sp. B. 243: 32-33, 1933.

Mitchener, Ent. Soc. Ont. R. 61: 22, 1931.

Pack, Utah Acad. Sci. P. 7: 59, 1930.

Pettit & Hutson, Mich. C. B. 137: 20-21, 1931.

Pickett, Pac. Rur. Press 120: 153, 1930.

iQuaintance & Siegler, USFB 1270 rev.: 41-42, 1931.

Ross, Can. Dept. Agr. B. 129: 46, 1930.

iRuggles, Minn. Hort. 59: 139, 1931; 62: 53, 1934.

Sanderson, Ins. Pests Farm ed. 3: 326-328, 1931.

iSmith, J. Kans. Ent. Soc. 5: 75-76, '32.

Twinn, Ent. Soc. Ont. R. 64: 76, 1933; R. 65: 125, 1934.

Altica bimarginata (Alder flea beetle)*

iBurke, Cal. Agr. Mo. B. 21: 361, 1932.

iMcDaniel, Mich. Sp. B. 243: 10-11, 1933.

Twinn, Ent. Soc. Ont. R. 64: 77, 1933.

Altica chalybea

Britton, Conn. B. 344: 112, 1933.

Case, Rur. N.Y. 89: 635, 1930.

Crosby, Rankin & Mills, N.Y. (C.) Ext. B. 306: 25-26, 1934.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 140, 1930.

Doane, Common Pests: 197-199, 1931.

Eddy et al, Ky. B. 353: 234, 1934.

Fite & Curry, N.Mex. B. 328: 24, 1931.

iPettit, Mich. Sp. B. 239: 11-12, 1933.

iQuaintance & Siegler, USDA FB 1666: 88, 1931.

Altica foliacea

Quaintance & Siegler, USDA FB 1270 rev.: 38-39, 1931.

Altica ignita

Britton, Conn. B. 344: 165, 1933.

Brooks, Watson & Mowry, Fla. Co-op. Ext. B. 63: 50, 1932.

Schaeffer, Bklyn. Ent. Soc. B. 27: 240, 1932.

Watson, Fla. B. 232: 90, 1931.

Altica kalmiae viridana

nSchaeffer, Bklyn. Ent. Soc. B. 27: 240, 1932.

Altica nancyae

inStirett, Can. Ent. 65: 208-210, 1933.

Altica oregonensis

nSchaeffer, Bklyn. Ent. Soc. B. 27: 241-242, 1932.

Altica punctipennis

Quaintance & Siegler, USDA FB 1270 rev.: 38-39, 1931.

Altica subopaca

nSchaeffer, Bklyn. Ent. Soc. B. 27: 242-243, 1932.

Altica torquata (Blueberry flea beetle)

Britton, Conn. B. 344: 88, 1933.

Phipps, Maine B. 356: 129-130, 1930.

Alticinae

Blake, Bklyn. Ent. Soc. B. 26: 76-83, 1931.

Schaeffer, Bklyn. Ent. Soc. B. 27: 239-245, 1932.

Alucita sacchari (Brown borer)

Holloway, Facts about Sugar 25: 831, 1930.

Alveotingis grossocerata

Torre-Bueno, Bklyn. Ent. Soc. B. 26: 149, 1931.

Alypia octomaculata (F.) (Eight-spotted forester)*

Britton, Conn. B. 344: 173-174, 1933.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 141-142, 1930.

Gibson, Can. Dept. Agr. B. n.s. 99 rev.: 16, 1934.

iQuaintance & Siegler, USDA FB 1666: 87, 1931.

- Alysia ridibunda**
Lindquist, J. Ec. Ent. 25: 414-415, '32.
- Amalus haemorrhous**
Frost, Bklyn. Ent. Soc. B. 27: 184, '32.
- Amaryllis insects**
Smith, Amer. Amaryllis Soc. YB 1: 94-96, 1934.
- Amastris lyciada, A. templa**
nBall, P. Biol. Soc. Wash. 46: 27-28, '33.
- Ambesa mirabella**
Essig & Keifer, Cal. Agr. Mo. B. 22: 155, 1933.
- Ambia striatilis**
Lemmer, Bklyn. Ent. Soc. B. 27: 177, 1932.
- Amblycheila baroni**
Smyth, J. Kans. Ent. Soc. 7: 103-104, 1934.
- Amblycheila picolomini**
Martin, Pan-Pac. Ent. 8: 111, 1932.
- Amblycorypha oblongifolia**
Davis, Guide to Nature 24(1): 6-7, '31.
- Amblydisca gigas—Morphology—Abdomen**
biSnodgrass, Smithsonian. Misc. Coll. 89(8): 86-91, 1933.
- Amblymerus mayetioidae**
biGahan, USDA Misc. Pub. 174: 65-67, 1933.
Rockwood & Reeher, USDA TB 361: 18, 1933.
- Amblymerus verditer**
Gahan, Ann. Ent. Soc. Amer. 25: 738-739, 1932.
- Amblyomma americanum (L.) (Lone star tick)***
iBishopp, Smithsonian. R. f. 1933: 401.
Glasser, Va. Med. Month. 56: 670-671, 1930.
iMohler, USDA FB 1625: 10-11, 1930.
biParker, Philip & Jellison, Amer. J. Trop. Med. 13: 364-367, 1933.
- Amblyomma cajennense**
bDavis, Amer. J. Trop. Med. 13: 547-554, 1933.
Dunn, J. Parasit. 20: 312, 1934.
Dyer, U.S. Pub. Health R. 48: 521-522, 1933.
biParker, Philip & Jellison, Amer. J. Trop. Med. 13: 367-371, 1933.
Roberts, J. N.Y. Ent. Soc. 42: 256-257, 1934.
- Amblyomma cuneatum**
Bequaert, Amer. Mus. Nov. 426: 7, '30.
- Amblyomma dissimile**
iBequaert, Psyche 39: 45-47, 1932.
- Amblyomma hebraeum**
Cooley, Mont. St. Bd. Ent. Bien. R. 8: 24, 1930.
Cooley, Science n.s. 71: 420, 1930.
iMartinaglia, J. Amer. Vet. Med. Assoc 80, 805-806, 1932.
- Amblyomma paulopunctatum**
Bequaert, Amer. Mus. Nov. 426: 6, '30.
- Amblyomma sp.**
Stoddard, Bobwhite Quail: 320, 1931.
- Amblyomma splendidum, A. tholloni**
Bequaert, Amer. Mus. Nov. 426: 6, 7, 1930.
- Amblyomma torrei**
nVigueras, Psyche 41: 17-18, 1934.
- Amblyomma variegatum**
Bequaert, Amer. Mus. Nov. 426: 7, '30.
- Amblyopone australis**
biWheeler, Colony-founding Among Ants: 74-78, 1933.
- Amblysellus, A. curtisii**
nSlesman, Ent. Amer. n.s. 10: 131-132, 1929.
- Amblyteles ctenuchae, A. heterocampae**
nCushman, PUSNM 82(14): 2-4, 1933.
- Amblyteles jucundus**
Decker, Iowa Res. B. 143: 345, 1931.
- Amblyteles laetus**
Breakey, Ann. Ent. Soc. Amer. 24: 43, 1931.
- Amblyteles propitius**
Cushman, PUSNM 82(14): 1-6, 1933.
- Amblyteles rubicundus**
Breakey, Ann. Ent. Soc. Amer. 24: 43, 1931.
- Amblyteles semicaeruleus**
Denton, Bklyn. Ent. Soc. B. 26: 3, '31.
- Amblyteles velox**
Tessier, Nat. Can. 57: 64, 1930.
- Amblytropidia bruneri** 233-234, pulchella 234-235
inHebard, Trans. Amer. Ent. Soc. 58: '32.
- Amblytropidia corrugata**
inHebard, Trans. Amer. Ent. Soc. 59: 42-43, 1933.
- Amblytylus nasutus**
Knight, Ent. News 41: 256-258, 1930.
- Ambush bugs, see Phymatidae**

- Ameletus spp.**
in McDunnough, Can. Ent. 65: 275-279, 1933; 66: 161-164, 1934.
- Ameletus lineatus**
in Traver, Elisha Mitchell Sci. Soc. J. 47: 194-197, 1932.
- Ameletus oregonensis**
in McDunnough, Can. Ent. 65: 157-158, 1933; sparsatus 63: 89, 1931.
- Ameletus vancouverensis**
in McDunnough, Can. Ent. 65: 157, 1933.
- American bird locust**, see *Schistocerca americana*
- *American cockroach**, see *Periplaneta americana* L.
- *American dog tick**, see *Dermacentor variabilis* Say
- American elm bark-beetle**, see *Hylurgopinus rufipes*
- *American grasshopper**, see *Schistocerca americana* Drury
- American raspberry beetle**, see *Byturus unicolor*
- American roach**, see *Periplaneta americana*
- American tortoise-shell**, see *Aglais milberti*
- Ametastegia glabrata** (Fall.) (Dock saw-fly)*
iNewcomer, USDA C. 270: 43-44, 1933.
- Amitermes—Key**
iLight, Kofoid, Termites and Termite Control: 190-196, 1934.
- Amitermes acrognathus** 398-400, **acutus** 398, **amifer** 362-365
iLight, Cal. Univ. Pub. Ent. 5: 1932.
- Amitermes arizonensis**
iLight, Cal. Univ. Pub. Ent. 5: 181-184, 1930.
Light, Pan-Pac. Ent. 8: 7-8, 1931.
- Amitermes beaumonti**
iLight, Cal. Univ. Pub. Ent. 5: 370-371, 1932.
- Amitermes californicus**
biLight, Cal. Univ. Pub. Ent. 5: 184-187, 1930.
iLight, Cal. Univ. Pub. Ent. 5: 224-225, 1930.
- Amitermes coachellae**
binLight, Cal. Univ. Pub. Ent. 5: 200-201, 1930.
Light, Pan-Pac. Ent. 8: 8, 1931.
- biLight, Cal. Univ. Pub. Ent. 5: 371-375, 1932.
- Amitermes confusus**, **A. cryptodon**
biLight, Cal. Univ. Pub. Ent. 5: 222-223, 1930; 405-406, 1930, 1932.
- Amitermes emersoni**
binLight, Cal. Univ. Pub. Ent. 5: 187-190, 1930.
biLight, Cal. Univ. Pub. Ent. 5: 375-377, 1932.
- Amitermes ensifer** 223-224, **foreli** 365-366, **fuscus** 400-401, **grandis** 220-221
inLight, Cal. Univ. Pub. Ent. 5: '30, '32.
- Amitermes infumatus**
binLight, Cal. Univ. Pub. Ent. 5: 402-405, 1932.
biLight, Cal. Univ. Pub. Ent. 6: 140-141, 1933.
- Amitermes (Euhamitermes) lighti**
nSnyder, P. Biol. Soc. Wash. 46: 93, '33.
- Amitermes magnoculus** 406-408, **medius** 361-362, **minimus** 377-378, **nigriceps** 219-220, **pallidus** 385-387, **parvipunctus** 388, **parvulus** 379-380
binLight, Cal. Univ. Pub. Ent. 5: '30, '32
- Amitermes perplexus**
biLight, Cal. Univ. Pub. Ent. 5: 394-397, 1932.
- Amitermes (Gnathamitermes) perplexus**
Light, Pan-Pac. Ent. 10: 160, 1934.
- Amitermes silvestri**
biLight, Cal. Univ. Pub. Ent. 5: 173-232, 1930; 355-410, 1932.
- Amitermes silvestrianus**
binLight, Cal. Univ. Pub. Ent. 5: 190-191, 1930; 380-383, 1932.
- Amitermes snyderi**
binLight, Cal. Univ. Pub. Ent. 5: 192-195, 384-385, 1930-1932.
- Amitermes spadix**
binLight, Cal. Univ. Pub. Ent. 5: 388-390, 1932.
- Amitermes spp.**
Light et al., Cal. C. 318: 30-32, 1930.
- Amitermes tubiformans**
biLight, Cal. Univ. Pub. Ent. 5: 408-409, 1932.
- Amitermes wheeleri**
biLight, Cal. Univ. Pub. Ent. 5: 195-199, 1930; 366-370, 1932.

- Amitus arcturus**
nWhittaker, P. Ent. Soc. Wash. 32: 69-70, 1930.
- Ammophila**
iWeed, Insect Ways: 151-156, 272, '30.
- Ammophila sp. and cutworms**
Strickland, Alberta Ext. B. 24: 23, '33.
- Amnestus—Cuba—Key**
Barber, P.R. Dept. Agr. J. 16: 239-240, 1932.
- Amoebaleria defessa**
Giovannoli, Bailey, Cave Life of Ky., 227, 1933.
- Amonostherium lichtensiodides**
Sweet, J. Ent. & Zool. 22: 87, 1930.
- Amorbia emigratella**
Bryan, Hawaiian Ent. Soc. P. 7: 380, 1931.
- Amorbia essigana**
Hutchison, Cal. R. f. 1932-1934: 60.
McKenzie, Cal. Avocado Assoc. YB f. 1933: 35.
Palmer, Cal. Cult. 78: 344, 1932.
Quayle, Cal. Avocado Assoc. YB f. 1932: 39.
- Amorbia humerosana**
Hall, Ent. Soc. Ont. R. 64: 22, 1933.
Pickett, N.S. Fr. Grow. Assoc. R. 70: 53, 1933.
- Amorbia phaseolana**
Busck, Ent. Amer. n.s. 13: 152-153, 1933.
- Ampedus spp.**
nBrown, Can. Ent. 65: 134-138, 1933.
- Ampelisca schellenbergi**
inShoemaker, Amer. Mus. Nov. 598: 3-5, 1933.
- Ampelophaga borisbana**
Clark, New Eng. Zool. Club P. 13: 44, 1932.
- Ampelophaga myron**
iMcDaniel, Mich. Sp. B. 243: 49, 1933.
- Ampelictogon bidens**
inLoomis, Smithson. Misc. Coll. 89(14): 29-30, 1934.
- Amphibolips confluens**
iMcDaniel, Mich. Sp. B. 243: 62-63, 1933.
- Amphicercidus—Key**
Gillette & Palmer, Ann. Ent. Soc. Amer. 25: 371, 1932.
- Amphicerus, see Schistoceros**
- Amphicomma vulpina**
Franklin, Mass. B. 271: 249, 1931.
- Amphineura**
Brooks, Carnegie Mus. Ann. 20: 179-253, 1931.
- Amphipoda**
iShoemaker, Amer. Mus. Nov. 598, 1933, 24p.
- Amphipyga spp.**
inDelong & Davidson, J. N.Y. Ent. Soc. 42: 222, 1934.
inOsborn, Ann. Ent. Soc. Amer. 23: 691-697, 1930.
- Amphitropesa, A. elegans**
nTownsend, J. N.Y. Ent. Soc. 40: 463, 464, 1932.
- Amphorophora—Key**
Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 134-135, 1934.
- Amphorophora arnicæ**
Hottes, P. Biol. Soc. Wash. 46: 9-11, 1933.
- Amphorophora brevitarsis**
inGillette & Palmer, Ann. Ent. Soc. Amer. 26: 357-359, 1933.
- Amphorophora ceanothi**
inBartholomew, Ann. Ent. Soc. Amer. 25: 717-718, 1932.
- Amphorophora crataegi**
iGillette & Palmer, Ann. Ent. Soc. Amer. 27: 137, 1934.
inTissot, Fla. Ent. 17: 42-45, 1933.
- Amphorophora nebulosa**
inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 275-277, 1931.
- Amphorophora nigra**
inBaker, Mex. Univ. Nac. Inst. Biol. Anal. 5: 216, 1934.
- Amphorophora pawtinceæ**
nHottes, P. Biol. Soc. Wash. 47: 5-6, '34.
- Amphorophora ribiella**
iGillette & Palmer, Ann. Ent. Soc. Amer. 27: 140, 1934.
- Amphorophora rossi**
inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 277-279, 1931.
- Amphorophora rubi (Raspberry aphid)**
bBennett, Mich. TB 125: 21-31, 1932.
Houser, Ohio B. 454: 71-72, 1930.
Jones & Hanson, Wash. Ext. B. 180: 5-6, 1933.

- Knowlton & Orton, W.Va. C. 61: 20, 1933.
 biWinter, Minn. TB 61, 1929, 42p.
Amphorophora sensorita and mosaic disease
 bBennett, Mich. TB 125: 23-24, 1932.
Amphorophora singularis
 inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 279-280, 1931.
Amphorophora sonchi
 inGillette & Palmer, Ann. Ent. Soc. Amer. 27: 142, 1934.
Amphorophora tigwatensa
 nHottes, P. Biol. Soc. Wash. 46: 11-13, 1933.
Ampulex canaliculatus 32-33, A. (Rhinopsis) ferruginea 274-276
 nBradley, Ent. News 45: 1934.
Ampulicidae
 Bradley, Ent. News 45: 32-34, 1934.
Amysoma chilonis
 Fullaway, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 80, 1931.
 Swezey, J. Ec. Ent. 24: 946, 1931.
Anabrus simplex Hald. (Mormon cricket)*
 C., J. Franklin Inst. 218: 397-398, '34.
 Cooley, Mont. B. 238: 10-11, 1930.
 biCowan, Col. St. Ent. C. 57, 1932, 28p.
 Cowan, Col.-Wyo. Acad. Sci. J. 1(5): 78-79, 1933.
 iHenderson, Utah C. 96: 33-34, 1931.
 Marlatt, USDA Ent. R. f. 1930: 23; R. f. 1933: 15.
 Strand, Mont. B. 269: 13, 1932.
 iStrand, Mont. B. 294: 30-32, 1934.
 iStrickland, Alberta Ext. B. 24: 18, '33.
 Strong, USDA Ent. R. f. 1934: 8.
 Webster, Northw. Fr. Grow. 6(7): 6, 14, 1934.
 USDA YB f. 1934: 85.
Anacampsis—Key
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 124, 1930.
 Forbes, P.R. Dept. Agr. J. 15: 374-375, 1931.
Anacampsis (Commatica) bifuscella
 inForbes, N.Y. Acad. Sci. Surv. P.R. 12(1 sup.): 375, 1931.
 nForbes, P.R. Dept. Agr. J. 15: 375, '31.
Anacampsis (Compsolechia) meibomiella
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 376-377, 1931.
 inForbes, P.R. Dept. Agr. J. 15: 376-377, 1931.
Anacampsis (Compsolechia) melanophaea
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 376, 1931.
 inForbes, P.R. Dept. Agr. J. 15: 376, '31.
Anacampsis sacramenta
 inKeifer, Cal. Agr. Mo. B. 22: 362-363, 1933.
Anacampta latiuscula
 Keifer, Cal. Agr. Mo. B. 22: 380, 1933.
Anacentrinus—Key
 Buchanan, Ann. Ent. Soc. Amer. 25: 332-335, 1932.
Anacentrinus deplanatus
 biHinds & Osterberger, Ann. Ent. Soc. Amer. 25: 337-342, 1932.
 Osterberger, La. R. f. 1929-1931: 87-88.
Anacentrinus sp.
 Holloway, Facts about Sugar 26: 302-304, 1931.
Anacentrinus subnudus
 in Buchanan, Ann. Ent. Soc. Amer. 25: 328-336, 1932.
 biHinds & Osterberger, Ann. Ent. Soc. Amer. 25: 339-342, 1932.
 Hyslop, J. Ec. Ent. 27: 563, 1934.
 Osterberger, La. R. f. 1929-1931: 88.
Anacentrus deplanatus, see Anacentrinus deplanatus
Anachaetopsis tortricis
 Yothers & Van Leeuwen, USDA TB 255: 26, 1931.
Anadiscalia
 nCurran, Fam. & Genera of North Amer Diptera: 468, 1934.
Anaea andria
 Calkins, Ent. News 43: 229, 1932.
Anaeudora, A. aureocephala
 nTownsend, J. N.Y. Ent. Soc. 40: 468, 1932.
Anagrus armatus
 iGarman & Townsend, Conn. B. 349: 431, 1933.
Anagrus empoascae
 nDozier, P.R. Dept. Agr. J. 16: 86-87, 1932.
Anagrus epos
 Moulton, Cal. Agr. Mo. B. 20: 749, 1932.

Anagrus flaveolus

Dozier, P.R. Dept. Agr. J. 16: 86, 1932.

Anagrus noeli

nDozier, P.R. Dept. Agr. J. 16: 87-88, 1932.

Anagrus sp.

Swezey, Hawaiian Ent. Soc. P. 7: 382, 387, 1931.

Williams, Hawaiian Ent. Soc. P. 8: 379, 1934.

Anagrus coccidivorus

inDozier, P. Ent. Soc. Wash. 34: 7-9, '32.

Anagrus dactylopii

Swezey, Hawaiian Ent. Soc. P. 7: 386, 1931.

Anagrus nigricornis

Schmidt, Hawaiian Ent. Soc. P. 8: 233, 1933.

Anagrus saccharicola

Pemberton, Facts about Sugar 27: 485, 1932.

Pemberton, Hawaiian Sugar Pl. Assoc. P. 52: 20-21, 1933.

Swezey, Hawaiian Ent. Soc. P. 8: 218, 222, 227, 1933.

nTimberlake, Hawaiian Ent. Soc. P. 8: 159-162, 1932.

Williams, Hawaiian Ent. Soc. P. 8: 223, 231, 1933.

Anagrus sp.

Williams, Hawaiian Ent. Soc. P. 8: 13, 32, 1932.

Anagrus swezeyi

Swezey, Hawaiian Ent. Soc. P. 7: 387, 1931.

Anamastax australis

Townsend, J. N.Y. Ent. Soc. 40: 472, 1932.

Anametis granulata (Gray snout beetle)

Caesar, Ent. Soc. Ont. R. 61: 7-8, '31.

Ross & Putman, Ent. Soc. Ont. R. 64: 39, 1933.

Ananca sinensis

Swezey, Hawaiian Ent. Soc. P. 8: 10, 1932.

Anaphes bicolor

nDozier, P.R. Dept. Agr. J. 16: 88, 1932.

Anaphoidea calendrae

Holloway, Facts about Sugar 26: 210-211, 1931.

iSatterthwait, J. N.Y. Ent. Soc. 39: 171-190, 1931.

Anaphoidea conotracheli

Alden, Ga. St. Bd. Ent. B. 71: 19, '30.

iDozier, Williams & Butler, Del. B. 175: 38-39, 1932.

Anaphoidea luna

Essig & Michelbacher, Cal. B. 567: 69, 1933.

Anaphothrips obscurus (Mull.) (Grass thrips)*

Wallace et al., Ind. Dept. Conserv. R. 14: 57, 1932.

Anaphothrips orchidii

Whitney, Hawaiian Ent. Soc. P. 7: 355, 1931.

Anaphothrips stanfordi

Bailey, Ent. News 44: 15, 1933.

Anaphothrips striatus (Grain thrips)

Strickland, Alberta Ext. B. 24: 53-54, 1933.

Anaplecta ochronotum jacobsoni, simalur

inHebard, P. Acad. Nat. Sci. Phila. 81: 30-35, 1929.

Anarhopus sydneyensis

biCompere & Flanders, J. Ec. Ent. 27: 966-973, 1934.

Flanders, J. Ec. Ent. 25: 1241, 1932.

†Anarsia lineatella Zell. (Peach twig borer)*

Borden, Pac. Rur. Press 123: 111, 1932.

Britton, Conn. B. 344: 139, 1933.

Browne, Cal. Cult. 74: 611, 618, 1933.

Essig, Hist. of Ent. 254-255, 1931.

iEssig & Hoskins, Cal. Ext. C 87: 68-70, 1934.

Harris, Iowa St. Hort. Soc. P. 67: 28, 1933.

iHutson, Mich. Sp. B. 244: 32-33, 1933.

Keifer, Cal. Agr. Mo. B. 20: 622-623, 1931.

Keifer & Jones, Cal. Agr. Mo. B. 22: 387-388, 1933.

biLockwood, Cal. Agr. Mo. B. 22: 336, 1933.

Mackie & Jones, Cal. Agr. Mo. B. 20: 664-665, 1931.

iMcWhorter et al., Oreg. Ext. B. 470: 4, 1934.

Moulton, Cal. Agr. Mo. B. 20: 755, '32.

iNewcomer, USDA C. 270: 61-62, 1933.

Pack, Utah B. 216: 14-16, 1930.

iPlank, Cal. Agr. Mo. B. 22: 113-130, 1933.

- iQuaintance & Siegler, USDA FB 1666: 77, 1931.
 Regan, Wash. St. Hort. Assoc. P. 25: 134-135, 1929.
 iSanderson, Ins. Pests Farm, ed. 3: 398-399, 1931.
 Snapp, USDA FB 1557: 30-31, 1931.
 Urbahns, Pac. Rur. Press 127: 149, '34.
 iWakeland, Ida. St. Hort. Assoc. P. 36: 158-159, 1931.
- Anarta preblei** 59-60, **A. richardsoni tamsi** 58-59
 nBenjamin, Pan-Pac. Ent. 9: 1933.
- Anasa tristis** (Deg.) (Squash bug)*
 iBritton, Conn. B. 344: 164, 1933.
 iCaesar, Ont. Dept. Agr. B. 359: 46-48, 1931.
 Cocks, Conn. (Storrs) Ext. B. 185: 8, 1933.
 Compton, Ill. C. 391: 28-30, 1932.
 Crosby & Chupp, N.Y. (C) Ext. B. 206 rev.: 60, 1931; Ext. B. 278: 52, 1934.
 Davis, Ind. Ext. B. 186: 18-19, 1932.
 iDustan, Can. Dept. Agr. B. n.s. 161: 57-58, 1932.
 Edmond, Strand & McNall, Mich. Sp. B. 193: 48, 1930.
 iGilbert & Popenoe, USDA FB 1371 rev.: 26, 1934.
 iHerrick, N.Y. Dept. Agr. & Markets B. 240: 62-63, 1930.
 Hixson, Okla. R. f. 1932/1934: 269-271.
 Hutson, Mich. R. 47: 217, 1934.
 Lutken, South. Cult. 91(6): 5, 1933.
- biMex. Agr. & Fomento. Principales Plagas: 182, 1930.
- biMoody, Ann. Ent. Soc. Amer. 23: 81-104, 1930.
 Pack, Utah B. 216: 20-21, 1930.
 Pettit, Mich. R. 46: 233, 1933.
 Richards & Robinson, Utah Acad. Sci. P. 7: 58, 1930.
 iSanderson, Ins. Pests Farm, ed. 3: 233-236, 1931.
- biSnodgrass, Smithson. Misc. Coll. 89(8): 84-86, 1933.
 Stanley, Cal. Cult. 79: 361, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 68, 1933; R. 65: 116, 1934.
 Watson, Fla. B. 232: 84-85, 1931.
- Anastatus albitarsis**
 biClausen, P. Ent. Soc. Wash. 33: 34, '31.
- Anastatus bifasciatus**, *see* **Anastatus disparis**
- Anastatus disparis**
 Britton & Ashworth, Conn. B. 349: 407, 1933.
 Collins & Jones, USDA YB f. 1932: 237.
 Marlatt, USDA Ent. R. f. 1930: 51; R. f. 1932: 24.
 iParker, J. Agr. Res. 46: 23-24, 1933.
 Amer. Nurserym. 59(2): 19, 1934.
- Anastatus diversus**
 nGahan, Habana Univ. Mem. Soc. Poey 8: 128-129, 1934.
- Anastatus reduvii**
 Underhill, Va. Poly. B. 294: 18, 1934.
- Anastatus scutellatus**
 nGahan, Habana Univ. Mem. Soc. Poey 8: 127-128, 1934.
- Anastatus semiflavidus**
 biFrankenfeld & Barnes, J. Ec. Ent. 26: 799-805, 1933.
 Marlatt, USDA Ent. R. f. 1931: 28; R. f. 1933: 17.
 Wildermuth & Frankenfeld, J. Ec. Ent. 26: 796-798, 1933.
- Anastatus viridicapus**
 nGahan, Habana Univ. Mem. Soc. Poey 8: 129-131, 1934.
- Anastrepha**
 biGreene, P. Ent. Soc. Wash. 36: 127-179, 1934.
 Newell, Fla. St. Pl. Bd. Bien. R. 10: 22-23, 1934.
- Anastrepha acidusa**
 McAlister, P. Ent. Soc. Wash. 36: 49, 1934.
- Anastrepha braziliensis**
 binGreene, P. Ent. Soc. Wash. 36: 154-155, 1934.
- Anastrepha chiclayae** 167, *concava* 169, *distincta* 149-150, *flavipennis* 160
 binGreene, P. Ent. Soc. Wash. 36: 1934.
- Anastrepha fraterculus** (Wied.) (West Indian fruitfly)*
 Bague, P.R. Com. Agr. & Labor R. f. 1929: 700, 1930.
 Dampf, Tex. Cit. 10(9): 14-15, 1934.
 biEmmart, P. Ent. Soc. Wash. 35: 184-191, 1933.

Anastrepha fraterculus *Cont'd*

Faxon & Trotter, J. Ec. Ent. 25: 444-445, 1932.

Newell, Fla. St. Pl. Bd. Bien. R. 9: 17-20, 1933.

Smith, Cal. Agr. Mo. B. 19: 247-248, 1930.

Wolcott, J. Ec. Ent. 24: 148, 1931.

Anastrepha fraterculus mombinpraeoptans

Dominguez, P.R. Dept. Agr. & Comm. Inf. An. Span. ed. f. 1932/1933: 153-154.

inSein, P.R. Dept. Agr. J. 17: 187-190, 1933.

Anastrepha hendeli 155-156, *longimacula* 146-147

binGreene, P. Ent. Soc. Wash. 36: 1934.

†Anastrepha ludens (Loew) (Mexican fruitfly)*

biDarby & Kapp, USDA TB 444, 1934, 20p.

Del Curto, Tex. Comm. Agr. R. 24: 46-48, 1932.

iFleury, Cal. Agr. Mo. B. 21: 316-321, 1932.

Fracker, USDA YB f. 1931: 376-378.

Hawkins, Tex. Cit. 9(2): 18-19, 1932.

iHoidale, Cal. Agr. Mo. B. 19: 254-255, 1930.

Hyde, USDA YB f. 1931: 56.

Marlatt, USDA Ent. R. f. 1931: 53; R. f. 1933: 11-12.

biQuayle, Cal. B. 542: 59-60, 1932.

Sanderson, Ins. Pests Farm, ed. 3: 476-477, 1931.

Strong, USDA PQCA R. f. 1930: 40-44; R. f. 1931: 42-45; R. f. 1933: 24-28.

Strong, USDA Ent. R. f. 1934: 18.

Welch, Tex. Cit. 9(1): 5-6, 1932.

Anastrepha ludens—Central America

bBates, Fla. Ent. 17: 45-46, 1933.

Anastrepha ludens—Eggs

biEmmart, P. Ent. Soc. Wash. 35: 184-191, 1933.

Anastrepha ludens—Mexico

Dampf, Tex. Cit. 10(9): 14-15, 1934.

iMcPhail & Bliss, USDA C. 255, 1933, 24p.

Strong, USDA BPQ R. f. 1933: 28-29.

Anastrepha ludens—Nicotine sulphate

Marlatt, USDA Ent. R. f. 1932: 7.

USDA YB f. 1933: 35.

†Anastrepha ludens—Quarantine

iFord, Tex. Cit. 7(9): 10, 13, 1931.

Hoyt, USDA BPQ R. f. 1934: 27-34.

Hyde, USDA Off. Rec. 11(36): 192, '32.

Jacobsen & Fleury, Cal. Dept. Agr. Sp.

Pub. 115: 43, 1932.

Jardine, USDA BPQ Q64: 2, 1932.

Jardine, USDA SRA BPQ 112: 67, '32.

Ramos, P.R. Dept. Agr. & Comm. Inf.

An. Span. ed. f. 1933-1934: 215-216.

Strong, USDA PQCA R. f. 1930: 40-44; R. f. 1931: 1-2, 42-46.

Strong, USDA PQCA SRA 108: 104-105, 1931.

Strong, Cit. Ind. 13(4): 25, 1932.

Strong, Cit. Ind. 13(12): 23, 1932.

Strong, USDA Off. Rec. 11(39): 201, 1932.

Strong, USDA BPQ Q64: 1, Sept. 1932.

Strong, USDA PQCA R. f. 1932: 23-28.

Strong, USDA PQCA SRA 109: 148-149, 1932.

Strong, USDA BPQ SRA 112: 66, 1932.

Strong, USDA BPQ R. f. 1933: 23-29.

USDA Off. Rec. 9(31): 2, 1930; 11(12): 79, 1932.

Anastrepha ludens—Texas

Strong, USDA BPQ R. f. 1933: 23.

J. Ec. Ent. 25: 1121, 1932.

Anastrepha ludens—Thermal death point

biDarby & Kapp, USDA TB 400, 1933, 19p.

Anastrepha pallidipennis 166, *panamensis*

150, *passiflorae* 151-152, *robusta* 144

binGreene, P. Ent. Soc. Wash. 36: 1934.

Anastrepha serpentina

biEmmart, P. Ent. Soc. Wash. 35: 184-191, 1933.

Anastrepha similis

binGreene, P. Ent. Soc. Wash. 36: 153-154, 1934.

Anastrepha sp.

Hope, Cal. Dept. Agr. Sp. Pub. 115: 160, 1932.

biMex. Agr. & Fomento. Principales Plagas: 91-92, 1930.

Rivas, Cal. Dept. Agr. Sp. Pub. 119: 73-75, 1933.

- Rivas, Cal. Agr. Mo. B. 23: 248-250, 337-338, 1934.
 biSein, P.R. Dept. Agr. J. 17: 183-196, 1933.
 Strong, USDA BPQ R. f. 1933: 23-24.
- Anastrepha striata**
 biEmmart, P. Ent. Soc. Wash. 35: 184-191, 1933.
- Anastrepha suspensa**
 biGreene, P. Ent. Soc. Wash. 36: 147-148, 1934.
 McAlister, P. Ent. Soc. Wash. 36: 49, 1934.
- Anastrepha townsendi** 165, *trinidadiensis* 161
 binGreene, P. Ent. Soc. Wash. 36: 1934.
- Anastrepha unipuncta**
 Dominguez, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1932-1933: 153-154.
 inSein, P.R. Dept. Agr. J. 17: 190-191, 1933.
- Anastrepha urichi** 159-160, *zeteki* 152-153
 binGreene, P. Ent. Soc. Wash. 36: 1934.
- Anatomy of insects, see Insects—Anatomy**
Anaulacomera oaxacae
 inHebard, Trans. Amer. Ent. Soc. 58: 310-311, 1932.
- Anax—Key**
 Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 15-16, 1932.
- Anax amaxilli** 32-39, *guttatus* 41-42
 biCalvert, Amer. Philos. Soc. P. 73: 1934.
- Anax junius**
 Bird, Sci. Month. 36: 372, 1933.
 bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 257, 1930.
 biCalvert, Amer. Philos. Soc. P. 73: 2-32, 1934.
 biDuncan, Trans. Amer. Ent. Soc. 59: 145-157, 1933.
 Emery, Ent. News 45: 50, 1934.
- Anax longipes**
 biCalvert, Amer. Philos. Soc. P. 73: 39-41, 1934.
- Anax piraticus**
 binKennedy, Ann. Ent. Soc. Amer. 27: 346-356, 1934.
- Anax strenuus**
 Williams, Hawaiian Ent. Soc. P. 8: 388, 1934.
- Anaxipha pulicaria**
 Allard, P. Ent. Soc. Wash. 32: 144-145, 1930.
- Anaxylophagus**
 nMalloch, P. Ent. Soc. Wash. 33: 216-217, 1931.
- Anchastus, A. arizonicus**
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 319-325, 1932.
- Anchastus cinereipennis** (Ash-winged click beetle)
 Essig & Hoskins, Cal. Ext. C. 87: 29, 1934.
- Anchastus digitatus**
 Knull, Ent. News 45: 208, 1934.
- Anchastus fumicollis**
 nFall, J. N.Y. Ent. Soc. 42: 17, 1934.
- Anchastus haddeni** 482-483, *philippinensis* 47
 nFleutiaux, Hawaiian Ent. Soc. P. 8: 1932-34.
- Anchastus subopacus**
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 321, 1932.
- Anchastus swazeyi**
 nVan Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 489-491, 1931.
- Anchastus ventralis**
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 322-323, 1932.
- Anchastus vitiensis**
 nVan Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 489, 1931.
- Anchastus williamsi** 482, *zwaluwenburgi* 475
 nFleutiaux, Hawaiian Ent. Soc. P. 8: '34.
- Anchylopera brauni** 11-12, *spiraeifolia* 12-13
 inHeinrich, PUSNM 79(13): 1931.
- Ancistrocerus atkinsi** 775-778, *domingensis* 772-775, *lutzi* 778-782, *olseni* 782-783
 nBequaert & Salt, Ann. Ent. Soc. Amer. 24: 1931.
- Ancylandrena**
 nCockerell, Pan-Pac. Ent. 7: 5-6, 1930.
- Ancylys baubiniæ**
 inBusck, Ent. Amer. n.s. 13: 155-156, 1933.
- †**Ancylys comptana** (Froel.) (Strawberry leaf roller)*
 Britton, Conn. B. 344: 166, 1933.

†*Ancylys comptana* Cont'd

- Brooks, Watson & Mowry, Fla. Co-op.
Ext. B. 63: 47-48, 1932.
Chambers, Wis. Hort. 24: 223, 1934.
Chambers & Thompson, Wis. Dept.
Agr. B. 123: 22-23, 1931; B. 145: 37,
1933.
Crosby, Rankin & Mills, N.Y. (C)
Ext. B. 306: 14-15, 1934.
Dean, Kans. St. Hort. Soc. Bien. R. 40:
143-144, 1930; R. 42: 137-138, 1934.
Doane, Common Pests: 193, 1931.
biDriggers & Pepper, Ann. Ent. Soc.
Amer. 24: 293-301, 1931.
Eddy et al., Ky. B. 353: 236, 1934.
biFink, J. Agr. Res. 44: 541-558, 1932.
Hutson, Mich. Quar. B. 16(1): 7-8, '33.
Jones & Hanson, Wash. Ext. B. 180:
10, 1933.
Loree, Mich. Sp. B. 182 rev.; 29, 1933.
Pettit, Mich. R. 46: 229, 1933.
Price & Eddy, Ky. St. Hort. Soc.
Trans. 77: 118-119, 1932.
Smith, J. Kans. Ent. Soc. 5: 87, 1932.
Twinn, Ent. Soc. Ont. R. 65: 121, 1934.
Wakeman, Mich. St. Hort. Soc. R. 62:
5-6, 1933.
Wallace, Ind. Dept. Conserv. R. 13:
54, 1931; R. Div. Ent. f. 1931: 28,
1932.

***Ancylys comptana*—Parasites**

- McConnell, P. Ent. Soc. Wash. 34: 108,
1932.
Patterson, Md. R. 45: xvii-xviii, 1932.

Ancylys cordiae

- inBusck, Ent. Amer. n.s. 13: 154-155,
1933.

***Ancylys nubeculana* (Apple leaf-sewer)**

- Quaintance & Siegler, USDA FB 1270
rev.: 56-57, 1931.

Ancyloirrhynchus apicalis

- nGertsch, Amer. Mus. Nov. 710: 7, '34.

Ancyloxypha nitedula

- nBell, Bklyn. Ent. Soc. B. 25: 48-49, '30.

Ancyloxypha numitor

- Saunders, N.Y. St. Mus. Hdbk. 13:
252-253, 1932.

Andraca bipunctata

- bClausen, USDA C. 168: 78, 1931.

***Andrena irana*—Parasites**

- bHicks, Univ. Col. Studies 21: 267, '34.

***Andrena* spp.**

- Brown, J. Wash. Acad. Sci. 24: 534-
539, 1934.
nCockerell, Amer. Mus. Nov. 452: 3,
1931; 458, 1931; 20p.; 466: 10-12,
1931; 697: 2-3, 1934; 732: 1-2, 1934.
nCockerell, Can. Ent. 63: 22-23, 1931;
64: 155-158, 1932.
Cockerell, Col.-Wyo. Acad. Sci. J. 1(3):
63, 1931.
Cockerell, Ent. News, 43: 48-49, 1932.
Cockerell, Pan-Pac. Ent. 8: 173-177,
1932; 9: 154-158, 1933.
iStep, Bees, Wasps, Ants: 113-134, '32.
Andrenidae, Oligolectic
Robertson, Ent. News 42: 226, 1931.

***Andrenosoma* spp.**

- nBromley, Trans. Amer. Ent. Soc. 57:
129-134, 1931.
nCurran, Amer. Mus. Nov. 487: 19-20,
1931.

Andriana, A. pyramidata

- nRehn, P. Acad. Nat. Sci. Phila. 81:
504-508, 1929.

Andricus

- Weld, P. Ent. Soc. Wash. 32: 139-140,
1930.

Andricus bicornis

- Burke, Cal. Agr. Mo. B. 21: 361-362,
1932.
Burke, Nat. Shade Tree Conf. P. 9: 51,
1934.

Andricus californicus

- iDuncan, Cal. St. Teach. Coll. Insects:
47-48, 1933.

Andricus gemmarius

- iMcDaniel, Mich. Sp. B. 243: 61, 1933.

Andricus punctatus

- Felt & Bromley, Nat. Shade Tree Conf.
P. 6: 19, 1930.

- iMcDaniel, Mich. Sp. B. 243: 61, 1933.

Andricus scutella

- nWeld, P. Ent. Soc. Wash. 32: 29-30,
1930.

Andricus seminator

- iMcDaniel, Mich. Sp. B. 243: 62, 1933.

Aneflomorpha longipennis

- Linsley, Pan-Pac. Ent. 9: 92, 1933.

Aneflomorpha parkeri

- nKnull, Ohio J. Sci. 34: 334-335, 1934.

Aneflus fisheri

- nKnull, Ohio J. Sci. 34: 335, 1934.

- Anergates friedlandi*
 bnCreighton, Psyche 41: 193-197, 1934.
- Aneristus*
 Dozier, P.R. Dept. Agr. J. 16: 93-102, 1932.
- Aneristus asterolecanii*
 inDozier, P.R. Dept. Agr. J. 16: 99-101, 1932.
- Aneristus ceroplastae*
 Flanders, J. Ec. Ent. 25: 1241, 1932.
 Swezey, Hawaiian Ent. Soc. P. 8: 6, 1932.
- Aneristus hispaniolae* 98-99, *mangiferae* 95-97
 inDozier, P.R. Dept. Agr. J. 16: 1932.
- Anetia dimmocki*
 nAldrich, PUSNM 80(20): 5-7, 1932.
 biStearns, J. Ec. Ent. 26: 151-154, 1933.
- Anetia flavipalpis*
 nReinhard, Bklyn. Ent. Soc. B. 29: 187-188, 1934.
- Anetia parvula*
 nReinhard, Bklyn. Ent. Soc. B. 29: 186-187, 1934.
- Anetia robineau desvoidy*
 Aldrich, PUSNM 80(20): 1-8, 1932.
- Aneurobracon, A. bequaerti*
 inBrues, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1002-1003, 1930.
- Angeniella annexa*
 Rau, Can. Ent. 66: 261, 1934.
- Angitia blackburni*
 Russell, Bermuda Dept. Agr. R. f. 1932: 26, 1933.
- Angitia laricinella*
 Dowden, Ann. Ent. Soc. Amer. 27: 601-602, 1934.
- **Angoumois grain moth*, *see* *Sitotroga cerealella* Oliv.
- Angular pigmy locust*, *see* *Acrydium subulatum*
- **Angular-winged katydid*, *see* *Microcentrum retinerve* Burm.
- Anisandrus germanus*
 Felt, Nat. Shade Tree Conf. P. 8: 80, 1932.
- Anisandrus obesus*
 Knull, Ent. News 43: 67, 1932.
- Anisandrus pyri*
 iNewcomer, USDA C. 270: 32-34, 1933.
 iQuaintance & Siegler, USDA FB 1270 rev.: 75, 1931.
- Anisocentropus bellus*
 inBanks, Psyche, 38: 67-68, 1931.
- Anisocention alacer*
 iClausen, P. Ent. Soc. Wash. 34: 55-57, 1932.
- Anisolabis annulipes*, *see* *Euborellia annulipes*
- Anisolabis maritima*
 Buckell, B. C. Ent. Soc. P. 27: 22-23, 1930.
- Anisomorpha buprestoides* (Stoll) (Two-striped walkingstick)*
 Fattig, Can. Ent. 65: 191, 1933.
- Anisomorpha monstrosa*
 nHebard, Trans. Amer. Ent. Soc. 58: 214, 1932.
- Anisoptera*—Key
 Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 12-13, 1932.
- Anisotena arizonica* 103, *kansana* 104, *texana* 103-104
 nSchaeffer, Pan-Pac. Ent. 9: 1933.
- Anisota rubicunda* (F.) (Green-striped maple worm)*
 iMcDaniel, Mich. Sp. B. 243: 56, 1933.
- Anisota senatoria* (S. & A.) (Orange-striped oak worm)*
 iMcDaniel, Mich. Sp. B. 243: 57, 1933.
- Anisota stigma* (F.) (Spiny oak worm)*
 McDaniel, Mich. Sp. B. 243: 57, 1933.
- Anisota virginienensis*
 McDaniel, Mich. Sp. B. 243: 56-57, 1933.
- Annandalia hageni*
 nBanks, Psyche 39: 105-106, 1932.
- Anobiidae*
 iVan Dyke, Kofoid, Termites and Termite Control: 328-330, 1934.
- Anobium punctatum* (Death watch beetle)
 Pearson, Amer. Wood-Preserv. Assoc. P. 30: 38, 1934.
- Anoecia corni* 832, *graminis* 833, *quercis* 833-834, *setariae* 834-835
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 1931.
- Anomala binotata*
 iSim, USDA C. 334: 4, 1934.
- Anomala ebenina*, *filigera*, *flamina*
 nOhaus, J. Wash. Acad. Sci. 23: 475-477, 1933.
- Anomala lucicola*
 Hutson, Mich. St. Bd. Agr. R. 73: 213, 1934.

Anomala nigropicta

Sim, J. N.Y. Ent. Soc. 38: 147, 1930.

Anomala obovata

nOhaus, J. Wash. Acad. Sci. 23: 475, '33.

Anomala orientalis Wtrh. (Oriental beetle)*

Blauvelt, N.Y. (C) Ext. B. 296: 38-39, 1934.

iBritton, Conn. B. 327: 553-557, 1931;

B. 338: 595, 1932; B. 344: 122-123,

1933; B. 349: 445, 1933.

C.L.L., Flor. Exch. 73(2): 39, 1930.

iFleming, Nat. Greenkeep. 6(6): 5-7, 1932.

iFleming & Osburn, USDA C. 238, 1932, 11p.

iFriend, Cal. Agr. Mo. B. 19: 220-222, 1930.

biHallock, USDA C. 117, 1930, 7p.

biHallock, J. Ec. Ent. 24: 204-212, 1931; 26: 80-85, 1933.

iMcChesney, Gard. Chron. Amer. 35: 410, 1931.

Marlatt, USDA Ent. R. f. 1931: 24-25; R. f. 1932: 9; R. f. 1933: 13-14.

Pemberton, Facts about Sugar 27: 484, 1932.

Pemberton, Hawaiian Sugar Pl. Assoc. P. 51: 586, 1932; P. 52: 18-19, 1933; P. 53: 14-15, 1934.

iRex, N.J. Dept. Agr. C. 178: 5-8, 1930.

Sanderson, Ins. Pests Farm, ed. 3: 324-325, 1931.

Siepmann, Bklyn. Ent. Soc. B. 26: 270, 1931.

iSim, USDA C. 334: 4, 1934.

Slate, Conn. B. 322: 124-125, 1931;

B. 337: 465, 1932; B. 357: 127, 1934.

Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 426-427, 1931.

Swezey, Mid-Pac. Mag. 42: 326, 1931.

Swezey & Pemberton, Hawaiian Sugar Pl. Assoc. P. 51: 581-582, 1932.

Swezey & Williams, Pan-Pac. Res. Inst. J. 6: 4-5, 1931.

biWilliams, Handb. Insects, Hawaiian Sugar Cane Fields: 188-194, 1931.

Wolters, Hawaiian Pl. Rec. 38: 264-278, 1934.

Zimmer, N.Y. Dept. Agr. & Markets R. f. 1929: 77-78, 1930.

U.S. Golf Assoc. Green Sec. B. 10: 185-190, 1930.

Anomala orientalis—Parasites

Gardner & Babcock, J. Ec. Ent. 24: 773, 1931.

Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 48, 1932.

Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 426-427, 1931.

Wolters, Hawaiian Pl. Rec. 38: 277, 1934.

Anomala orientalis—Quarantine

iBlack, N.J. Dept. Agr. Bur. Stat. & Insp. C. 182: 20-47, 1930.

iBritton, Conn. C. 72: 59-60, 1930; C. 85: 39-40, 1932.

Strong, USDA PQCA R. f. 1930: 29-30.

Anomala orientalis and Polymastix

bZeliff, Amer. Micros. Soc. Trans. 49: 269-272, 1930.

Anomala polychalca

Smyth, J. Kans. Ent. Soc. 7: 113-114, 1934.

Anomala sieversi—Parasites

biParker, J. Ec. Ent. 27: 486-491, 1934.

Anomalaegialia

nBrown, Can. Ent. 63: 15, 1931.

Anomalagrion hastatum

bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 268, 1930.

Anomalochrysa biseriata

Swezey, Hawaiian Ent. Soc. P. 7: 483, 1931.

Anomis erosa (Abutilon moth)

iWatson, Fla. B. 232: 72-73, 1931.

Anomis impasta

bRainwater, J. Ec. Ent. 27: 761, 1934.

Anomma sp.

Strong, Harvard Univ. Inst. Trop. Biol. Contrib. 5: 194-196, 1930.

Anomoea spp.

nSchaeffer, J. N.Y. Ent. Soc. 41: 308-318, 1933.

nSmyth, J. Kans. Ent. Soc. 7: 118, 1934.

Anomogyna spp.

nBenjamin, Pan-Pac. Ent. 9: 55, 56, 147, 149, 1933.

McDunnough, Can. Ent. 64: 109-111, 1932.

Anomoterga, A. tahuata

inKlyver, Bernice P. Bishop Mus. B. 98: 93-96, 1932.

Anopheles

- Barrier, South. Med. J. 25: 662-664, 1932.
- iBishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 2-3, 1933.
- ibBoyd, Amer. J. Hyg. 12: 449-465, '30.
- ibBoyd, Introd. Malariaology: 205-217, 1930.
- Bradley, J. Ec. Ent. 24: 1229-1233, '31.
- Bradley, South. Med. J. 25: 533-536, 1932.
- bCarley, Amer. J. Trop. Med. 11: 293-296, 1931.
- biCurry, Amer. J. Hyg. 15: 566-572, '32.
- Curry, Panama Canal Health Dept. R. f. 1931: 52-59, 1932.
- bD'Herelle, Amer. J. Hyg. 16: 609, 1932.
- McDaniel, Mich. C. B. 144: 16, 1932.
- biMatheson, Med. Ent.: 227-235, 1932.
- Perez, Amer. J. Hyg. 11: 696-710, '30.
- Symes, Amer. Assoc. Med-Phys. Res. J. 8: 265-269, 1930.
- Tate, Ecology 13: 245, 1932.
- U.S. Naval Med. B. 30: 273, 1932.
- Anopheles—Breeding**
- biBradley, J. Agr. Res. 44: 381-399, '32.
- iKrysto, Sci. Amer. 142: 271, 1930.
- Anopheles—Daytime resting places**
- iRussell, P. Ent. Soc. Wash. 34: 129-138, 1932.
- Anopheles—Dissection**
- Boyd, Amer. J. Hyg. 16: 836-838, 1932.
- Anopheles—Eggs**
- Hermes & Frost, J. Parasit. 18: 121, 240-244, 1931.
- Anopheles—Hypopygia**
- biMartini, P. Ent. Soc. Wash. 35: 61-67, 1933.
- biFrost, J. Parasit. 18: 282-284, 1932.
- Anopheles—Identification**
- Bradley, P. Ent. Soc. Wash. 34: 41-43, 1932.
- Wells, Amer. J. Trop. Med. 10: 243-248, 1931.
- Anopheles—Infectivity**
- Hodgkin, Pac. Sci. Cong. 5, P. 5: 3349-3354, 1934.
- Anopheles—Larvae**
- biRoot, Amer. J. Hyg. 15: 777-784, 1932.
- Anopheles—Manipulation of infected mosquito**
- iBoyd, Amer. J. Hyg. 16: 839-844, 1932.

Anopheles—Natural history & surveys

- biBoyd, Introd. to Malariaology: 205-417, 1930.
- Anopheles—Rearing, Large scale**
- Boyd & Cain, Amer. J. Hyg. 16: 832-835, 1932.
- Anopheles (A. manguinhosia) alagoaniii**
- bShannon & Davis, Ann. Ent. Soc. Amer. 23: 481-483, 1930.
- Anopheles albimanus**
- Chamberlain & Curry, Panama Canal Health Dept. R. f. 1929: 17, 1930.
- iCurry, Panama Canal Health Dept. R. f. 1931: 59-64.
- Curry, South. Med. J. 27: 644-651, '34.
- Earle, P.R. J. Pub. Health 7: 381-384, 1932.
- Hayes, U.S. Naval Med. B. 28: 195-222, 1930.
- Hoffman, South. Med. J. 25: 524, 1932.
- Siler, Panama Canal Health Dept. R. f. 1932: 41, 1933.
- iWashburn, Amer. J. Hyg. 17: 656-665, 1933.
- Whitmore, United Fr. Co. Med. Dept. R. 18: 39, 1929.
- Anopheles albimanus and Malaria**
- Benerroch, Amer. J. Hyg. 14: 690-693, 1931.
- Clark & Dunn, United Fr. Co. Med. Dept. R. 19: 57-59, 1930.
- Cook, South. Med. J. 23: 455-456, '30.
- Curry, Panama Canal Health Dept. R. f. 1931: 53-56, 1932.
- biEarle, Palacios & Arbona, P.R. J. Pub. Health & Trop. Med. 11: 434-478, 1930.
- iWashburn, Amer. J. Hyg. 17: 656-665, 1933.
- Anopheles (Nyssorhynchus) albitarsis**
- bShannon & Davis, Ann. Ent. Soc. Amer. 23: 488-489, 1930.
- Anopheles and clover—Immunity to malaria**
- bD'Herelle, Amer. J. Hyg. 16: 609-617, 1932.
- Anopheles and disease—Anthrax**
- Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.
- Anopheles and disease—Buffalo plague**
- Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.

Anopheles and disease—Surra

Krijgsman, Pac. Sci. Cong. 5. P. 5: 3357-3358, 1934.

Anopheles and disease—Malaria

iAshburn, Hygeia 11: 446-449, 469-470, 1933.

biBarber in Hegner & Andrews, Prob. & Meth. of Res. in Protozool.: 366-380, 1930.

iBarber et al., Amer. J. Hyg. 15: 601-633, 1932.

Bishopp, N.J. Mos. Exterm. Assoc. P. 20: 67-71, 1933.

Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 41-44, 1934.

iChamberlain & Curry, Panama Canal Health Dept. R. f. 1928: 25-33, '30.

Coogle, Farm & Ranch 51(8): 10, 1932.

Griffitts, N.J. Mos. Exterm. Assoc. P. 18: 102-105, 1931.

Griffitts, Fla. Med. Assoc. J. 19: 249-251, 1932.

Hale, United Fr. Co. Med. Dept. R. 20: 98-107, 1931.

Hanson, Boyd & Griffitts, Amer. J. Pub. Health 25: 156-161, 1935.

Hinman, Ann. Ent. Soc. Amer. 25: 614-616, 1932.

bHoffman, Malaria in Miss. 1932, 16p.

biKligler, Epidemiology of Malaria in Palestine: 50-87, (c1930).

iKrysto, Sci. Amer. 142: 270-272, '30.

McDaniel, Mich. C. B. 144: 19-22, '32.

biMason, Rockefeller Found. R. f. 1929: 62-83; R. f. 1930: 60-74; R. f. 1931: 54-56.

Mayne, U.S. Pub. Health R. 47: 1771-1773, 1932.

bMeleney, Faust & Riley, South. Med. J. 26: 448-453, 1933.

Riley & Johannsen, Med. Ent.: 230-244, 1932.

bRussell, Amer. J. Trop. Med. 11: 145-146, 1931; 13: 167-178, 1933.

biRussell, J. Parasit. 19: 215-224, 1933.

iStanford, Nature Mag. 21: 65-68, 1933.

iWashburn, Amer. J. Hyg. 17: 656-665, 1933.

J. Amer. Med. Assoc. 100: 354, 1933.

iCal. Dept. Health B. 44, 1933, 41p.

Panama Canal Health Dept. R. f. 1930: 90-95, 1931.

Science n.s. 74: 471-472, 1931.

Anopheles and disease—Malaria—Asia

bRiley, Faust & Griffitts, South. Med. J. 27: 455-456, 1934.

Anopheles and disease—Malaria—Canada

bFisk, Can. Med. Assoc. J. 25: 679-683, 1931.

Anopheles and disease—Malaria—Cost of control

LePrince, Amer. J. Pub. Health 21: 378-381, 1931.

Anopheles and disease—Malaria—Indiana

Harvey, Ind. St. Bd. Health Mo. B. 34: 49-50, 1931.

Anopheles and disease—Malaria—Italy

J. Amer. Med. Assoc. 96: 53, 1931.

Anopheles and disease—Malaria—Jamaica

iWashburn, Amer. J. Hyg. 17: 656-665, 1933.

Anopheles and disease—Malaria—Malaya

Hodgkin, Pac. Sci. Cong. 5. P. 5: 3349-3354, 1934.

Anopheles and disease—Malaria—Mosquito-proofing

biMeleney & Griffin, South. Med. J. 24: 418-424, 1931.

Anopheles and disease—Malaria—Netherlands

J. Amer. Med. Assoc. 96: 880, 1931.

J. Amer. Med. Assoc. 103: 426, 1934.

Anopheles and disease—Malaria—New Mexico

bBarber & Forbrich, U.S. Pub. Health R. 48: 610-623, 1933.

Anopheles and disease—Malaria—Novara

Frongia, J. Amer. Med. Assoc. 97: 1813-1814, 1931.

Anopheles and disease—Malaria—Palestine

biKligler, Epidemiology of Malaria in Palestine, (c1930), 240p.

Anopheles and disease—Malaria—Panama

Clark & Komp, United Fr. Co. Med. Dept. R. 20: 41-43, 1931.

Anopheles and disease—Malaria—Philippines

bKing, South. Med. J. 23: 445-448, '30.

Anopheles and disease—Malaria—Plasmodium vivax

iBoyd & Stratman-Thomas, Amer. J. Hyg. 16: 845-853, 1932; 18: 482-489, 1933; 19: 539-540, 1934.

Anopheles and disease—Malaria—Slide smears

Barraud, J. Lab. & Clin. Med. 19: 556-557, 1934.

Anopheles and disease—Malaria—S. America

Hanson, Fla. Med. Assoc. J. 16: 399-400, 1930.

Anopheles and disease—Malaria—Transmission

Craig, South. Med. J. 27: 450-451, '34.

Anopheles and disease—Malaria—Tropical America

bRiley, Faust & Griffiths, South. Med. J. 27: 453, 1934.

Anopheles and disease—Malaria—Venezuela

Benarroch, Amer. J. Hyg. 14: 690-693, 1931.

Anopheles and disease—Tularaemia

bPhilip, Davis & Parker, U.S. Pub. Health R. 47: 2077-2088, 1932.

Anopheles and drainage

iClark, South. Med. J. 24: 442-449, '31.
Barber, South. Med. J. 25: 649-651, 1932.

Anopheles and Gambusia

bBarber & Frobrich, U.S. Pub. Health R. 48: 619-620, 1933.

Anopheles and Paresis

Harvey, Ind. St. Bd. Health Mo. B. 34: 49-50, 1931.
Sci. News Letter 21: 325, 410, 1932.

Anopheles and temperature

biBoyd, Introd. to Malarology: 254-256, 1930.
Bradley, South. Med. J. 25: 533-534, 1932.

Anopheles argyritarsis

bCurry, Amer. J. Hyg. 13: 648, 1931.

Anopheles argyritarsis and Monkey malaria

Clark & Dunn, United Fr. Co. Med. Dept. R. 19: 57-59, 1930.

Anopheles atropos

Bishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 2-3, 1933.

Hinman, J. Parasit. 19: 172, 1932.

bHinman, P. Ent. Soc. Wash. 34: 138-142, 1932.

iMayne & Griffiths, U.S. Pub. Health R. 46: 3107-3115, 1931.

Anopheles bachmanni

Benarroch, Amer. J. Hyg. 14: 690-693, 1931.

Chamberlain & Curry, Panama Canal Health Dept. R. f. 1928: 32, 1930.

Anopheles barberi

biMatheson, Mos. North Amer.: 92, '29.

Anopheles crucians

bBoyd & Stratman-Thomas, Amer. J. Hyg. 20: 247-257, 1934.

Headlee, N.J. Mos. Exterm. Assoc. P. 18: 57-58, 1931.

Hoffman, South. Med. J. 25: 523, 1932.

biMatheson, Mos. North Amer.: 90-91, 1929.

Stearns, MacCreary & Newhouse, Del. B. 181: 72, 1933.

Anopheles darlingi

Benarroch, Amer. J. Hyg. 14: 690-693, 1931.

Davis & Kumm, Amer. J. Trop. Med. 12: 93-95, 1932.

Mason, Rockefeller Found. R. f. 1931: 60-61.

Russell, Rockefeller Found. R. f. 1933: 56-57.

Anopheles elutus

iKligler & Mer, J. Prevent. Med. 5: 401-407, 1931.

Anopheles funestus

J. Amer. Med. Assoc. 96: 812-813, '31.

Anopheles funestus minimus

biRussell, Rockefeller Found. R. f. 1933: 52-56.

Anopheles gambiae

Howard, Science n.s. 71: 435, 1930.

bMason, Rockefeller Found. R. f. 1930: 61; R. f. 1931: 61-62.

bMeleney, Faust & Riley, South. Med. J. 26: 449, 1933.

Philip, Amer. J. Trop. Med. 10: 7-15, 1930.

bRiley, Faust & Griffiths, South. Med. J. 27: 454-455, 1934.

biShannon, Amer. J. Hyg. 15: 635-663, 1932.

- Anopheles grabhamii**
Earle, P.R. J. Pub. Health 7: 381-384, 1932.
- Anopheles hyrcanus sinensis**
biFeng, Amer. J. Hyg. 14: 502-514, 1931.
Feng, Soc. Exp. Biol. & Med. 32: 494-496, 1934.
- Anopheles lindesayi benguensis**
biMason, Rockefeller Found. R. f. 1931: 56-63.
- Anopheles maculatus**
Hodgkin, Pac. Sci. Cong. 5. P. 5: 3349-3354, 1934.
- Anopheles maculipennis**
iEssig, Hist. of Ent.: 210-214, 1931.
bHackett & Missiroli, Amer. J. Hyg. 11: 57-77, 1931.
biHerms & Frost, J. Parasit. 18: 242, '32.
iMail, Mont. B. 288: 42-43, 1934.
biMatheson, Mos. North America: 88-89, 1929.
Merrill, Cal. R. f. 1928-1929: 68, 1930.
- Anopheles maculipennis—Bulgaria**
iDrensky & Collins, South. Med. J. 27: 549-551, 1934.
- Anopheles maculipennis—Hibernation**
Bishopp, N.J. Mos. Exterm. Assoc. P. 20: 75-76, 1933.
- Anopheles maculipennis—Humidity and hibernation**
Freeborn, J. Parasit. 18: 118, 1931.
biFreeborn, Amer. J. Hyg. 16: 215-223, 1933.
- Anopheles maculipennis—Races**
biHackett et al., Amer. J. Hyg. 16: 137-162, 1932.
- Anopheles maculipennis—Zoophily**
Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 23-24, 1932; P. 20: 74-75, 1933.
Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 47-48, 1932.
- Anopheles maculipennis and Encephalomyelitis**
biHerms, Wheeler & Herms, J. Ec. Ent. 27: 995-998, 1934.
- Anopheles maculipennis and Malaria**
Hackett, South. Med. J. 24: 426-430, 1931.
Hayne, Amer. J. Pub. Health 21: 1098, 1931.
bMason, Rockefeller Found. R. f. 1930: 63; R. f. 1931: 54-56.
- bRiley, Faust & Griffiths, South. Med. J. 27: 453-454, 1934.
J. Amer. Med. Assoc. 95: 1438, 1930.
- Anopheles maculipennis and Paresis**
Bishopp, N.J. Mos. Exterm. Assoc. P. 20: 71-72, 1933.
- Anopheles maculipes**
Davis, Ann. Ent. Soc. Amer. 26: 277-278, 1933.
- Anopheles (Anopheles) marteri**
bRussell, Rockefeller Found. R. f. 1933: 59.
- Anopheles minimus**
Mason, Rockefeller Found. R. f. 1931: 66.
Russell, P. Ent. Soc. Wash. 34: 129-138, 1932.
biRussell, J. Parasit. 19: 219-222, 1933.
iRussell & Santiago, P. Ent. Soc. Wash. 36: 1-21, 1934.
- Anopheles (Anopheles) minor**
biShannon & Davis, Ann. Ent. Soc. Amer. 23: 484-487, 1930.
- Anopheles (Anopheles) neomaculipalpus**
binCurry, Amer. J. Hyg. 13: 643-647, '31.
Siler, Panama Canal Health Dept. R. f. 1932: 41, 1933.
- Anopheles—Nyssorhynchus group**
Curry, Amer. J. Hyg. 15: 566-572, '32.
iHill, Amer. J. Hyg. 11: 711-713, 1930.
Townsend, Ent. News 44: 101-102, '33.
- Anopheles (A. Manguinhosia) peryassui**
biShannon & Davis, Ann. Ent. Soc. Amer. 23: 483-484, 1930.
- Anopheles pseudopunctipennis**
Clark & Dunn, United Fr. Co. Med. Dept. R. 19: 57-59, 1930.
biHerms & Frost, J. Parasit. 18: 241, '32.
Hoffman, South. Med. J. 25: 523-529, 1932.
Komp, United Fr. Co. Med. Dept. R. 18: 71, 1929.
biMatheson, Mos. North Amer.: 91-92, 1929.
Root, J. Parasit. 20: 315, 1934.
iShannon, Amer. J. Hyg. 12: 442-448, 1930.
- Anopheles punctipennis**
iBishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 3, 1933.
Boyd & Mulrennan, Ann. Ent. Soc. Amer. 27: 311-312, 1934.

- Britton, Mos. Prob. of Conn.: 7-9, 1931.
 Headlee, N.J. Mos. Exterm. Assoc. P. 18: 55-56, 1931.
 biHermes & Frost, J. Parasit. 18: 242-243, 1932.
 Howard, Hist. of Appl'd Ent.: 469, '30.
 McDaniel, Mich. C. B. 144: 21, 1932.
 iMail, Mont. B. 288: 43, 1934.
 biMatheson, Mos. North Amer.: 85-87, 1929.
 biMatheson, Med. Ent.: 232, 1932.
 Mayne, U.S. Pub. Health R. 47: 1771-1773, 1932.
 Snodgrass, Smithson. Sci. Ser. 5: 340-342, 1930.
 Stearns, MacCreary & Newhouse, Del. B. 181: 70, 1933.
Anopheles quadrimaculatus Say (Common malarial mosquito)*
 Bishopp, N.J. Mos. Exterm. Assoc. P. 20: 77-78, 1933.
 iBishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 3, 1933.
 Headlee, N.J. Mos. Exterm. Assoc. P. 18: 56-57, 1931.
 iHerrick & Griswold, N.Y. (C) Ext. B. 202 rev.: 12-14, 1934.
 Hoffman, South. Med. J. 25: 523-524, 1932.
 Howard, Hist. of Appl'd Ent.: 469, '30.
 McDaniel, Mich. C. B. 144: 19-20, '32.
 Marlatt, USDA Ent. R. f. 1930: 65-66.
 biMatheson, Mos. North Amer.: 35, 87-88, 1929.
 biMatheson, Med. Ent.: 229-231, 1932.
 Matheson, N.Y. (C) R. 46: 108, 1933.
 Stearns, MacCreary & Newhouse, Del. B. 181: 102-106, 1933.
 bWalker, Can. Ent. 62: 150-151, 1930.
 iWilliams, Va. Health B. 26(11): 10-12, 1934.
Anopheles quadrimaculatus—Cost of control
 LePrince, Amer. J. Pub. Health 21: 378-381, 1931.
Anopheles quadrimaculatus—Hibernation
 bHinman, South. Med. J. 27: 461-464, 1934.
Anopheles quadrimaculatus—Naphthalene
 Sci. News Letter 20: 94, 1931.
Anopheles quadrimaculatus—Rearing
 Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 26, 1932.
 iBoyd, Amer. J. Trop. Med. 10: 165-175, 1930.
 Boyd, Science 76: 370-371, 1932.
 bBoyd & Cain, Amer. J. Hyg. 16: 832-835, 1932.
 Matheson, N.Y. (C) R. 46: 108, 1933.
Anopheles quadrimaculatus and Malaria
 Boyd & Stratman-Thomas, Amer. J. Trop. Med. 13: 265-271, 1933.
 bBoyd & Stratman-Thomas, Amer. J. Hyg. 20: 247-257, 1934.
 Britton, Mos. Prob. of Conn.: 7-9, '30.
 Cecil, Text-Book of Med. ed. 3: 510, 1934.
 Dappert, Ill. Med. J. 57: 282-287, '30.
 iFoster, Sci. Month. 37: 523-530, 1933.
 Hoffman, South. Med. J. 25: 657-662, 1932.
 iKrysto, Sci. Amer. 142: 271-272, 1930.
 iRedfearn & Griffiths, Med. Assoc. Ga. J. 19: 365-369, 1930.
 iStearns, MacCreary & Newhouse, Del. B. 181: 70, 1933.
 Sci. News Letter 20: 94, 1931.
Anopheles quadrimaculatus and Plasmodium vivax
 iBoyd, Amer. J. Hyg. 16: 851-853, 1932.
 Boyd & Stratman-Thomas, Amer. J. Hyg. 16: 845-850, 1932; 17: 666-685, 1933.
Anopheles (Nyssorhynchus) rondoni
 Davis, Ann. Ent. Soc. Amer. 26: 278-280, 1933.
Anopheles (Anopheles) shannoni
 in Davis, Amer. J. Hyg. 13: 345-347, '31.
Anopheles sp.
 Bradley, Fico News 1(9): 4-5, 1933.
Anopheles stephensi
 Bishopp, N.J. Mos. Exterm. Assoc. P. 20: 78, 1933.
Anopheles subpictus indefinitus
 iRussell & Santiago, P. Ent. Soc. Wash. 36: 1-21, 1934.
Anopheles superpictus—Bulgaria
 iDrensky & Collins, South. Med. J. 27: 549-551, 1934.
Anopheles tarsimaculatus
 iChamberlain & Curry, Panama Canal Health Dept. R. f. 1928: 27-33, '30.

- Anopheles tarsimaculatus* *Cont'd*
Clark & Dunn, United Fr. Co. Med.
Dept. R. 19: 57-59, 1930.
- Anopheles tessellatus*
iRussell & Santiago, P. Ent. Soc. Wash.
36: 1-21, 1934.
- Anopheles (Stethomyia) thomasi*
Davis, Ann. Ent. Soc. Amer. 26: 277,
1933.
- Anopheles vagus*
Bishopp, N.J. Mos. Exterm. Assoc. P.
19: 35, 1932.
iRussell & Santiago, P. Ent. Soc. Wash.
36: 1-21, 1934.
- Anopheles vestitipennis*
biGerry, Ann. Ent. Soc. Amer. 25: 37,
1932.
- Anopheles walkeri*
iBishopp, Cory & Stone, P. Ent. Soc.
Wash. 35: 3, 1933.
biMatheson, Mos. North Amer.: 89-90,
1929.
Matheson, N.Y. (C). R. 46: 108, 1933.
Matheson, Boyd & Stratman-Thomas,
Amer. J. Hyg. 17: 515-516, 1933.
Stearns, MacCreary & Newhouse, Del.
B. 181: 72, 1933.
- Anophelini—Brazil*
Shannon & Davis, Ann. Ent. Soc.
Amer. 23: 467-492, 1930.
- Anophthalmus*, *see* *Pseudanophthalmus*
- Anoplinellus*
nBanks, Amer. Acad. Arts & Sci. P.
69(1): 95-96, 1934.
- Anoplitis ancoroides*
nSchaeffer, Pan-Pac. Ent. 9: 105, 1933.
- Anoplium (Elaphidion) inerme (Orange
sawyer)*
Watson & Berger, Fla. Ext. B. 67: 111,
1932.
- Anoplius spp.*
nBanks, Amer. Acad. Arts & Sci. P.
69(1): 93-95, 1934.
- Anoplodera minnesotana, mutabilis*
Knull, Ent. News 45: 210, 1934.
- Anoplodera planata*
Hopping, Can. Ent. 64: 72, 1932.
- Anoplosiagum spp.*
inChapin, Ann. Ent. Soc. Amer. 25: 174-
178, 1932.
- Anoplotermes fumosus* 133, *parvus* 134
biLight, Cal. Univ. Pub. Ent. 6(5): 1933.
- Anoplotermes (Anoplotermes) pyriformis*
inSnyder, Wash. Biol. Soc. P. 47: 96-
97, 1934.
- Anoplura*
bBequaert, Harv. Univ. Inst. Trop. Biol.
Contrib. 5: 994-997, 1930.
biEwing, Ann. Ent. Soc. Amer. 25: 657-
669, 1932.
biFerris, Stanford Univ. Pub. Univ. Ser.
Biol. Sci. 2: 415-470, 1933; 471-526,
1934.
Ferris, Ent. News 45: 70-74, 85-88, '34.
biMatheson, Med. Ent.: 148-173, 1932.
Reed, Science 72: 619-620, 1930.
biRiley & Johannsen, Med. Ent.: 125-
142, 1932.
iSanderson, Ins. Pests Farm ed. 3: 507-
508, 1931.
Whitehead, Que. Soc. Prot. Pl. R.
25/26: 87, 1934.
- Anorostoma cinereum*
inCurran, Amer. Mus. Nov. 526: 10-11,
1932.
- Anorus arizonicus, parvicollis, piceous*
inBlaisdell, Trans. Amer. Ent. Soc. 60:
320-324, 1934.
- Anosia plexippus*, *see* *Danaus archippus*
- Ant lions*, *see* *Myrmeleontidae*
- Ant-tree insects—Rio Frio, Colombia*
Wheeler & Darlington, Psyche 37:
107-117, 1930.
- Antarctophthirus*
biFerris, Stanford Univ. Pub. Univ. Ser.
Biol. Sci. 2: 484-498, 1934.
- Anteon flaviscapus, hirtifrons*
nWhittaker, P. Ent. Soc. Wash. 32: 67-
68, 1930.
- Anthaxia aeneogaster*
Frost, Bklyn. Ent. Soc. B. 25: 146, 1930.
- Anthaxia quercata*
Knull, Ent. News 45: 208, 1934.
- Anthidiinae*
inSchwarz, J. N.Y. Ent. Soc. 38: 10-13,
1930; 39: 315-320, 1931.
Schwarz, Amer. Mus. Nov. 624, 1933,
27p.; 743, 1934, 4p.
- Anthoboscus ruricola*
Knull, Ent. News 45: 210, 1934.
- Anthochaerus cethura*
iComstock & Dammers, So. Cal. Acad.
Sci. B. 31: 33-35, 1932.

- Anthocharis sara gunderi**
 nIngham, Pan-Pac. Ent. 9: 75-76, 1933.
- Anthocharis sara inghami duncani**
 nGunder, Can. Ent. 64: 276-277, 1932
- Anthocharis sara reakirtii**
 iComstock, So. Cal. Acad. Sci. B. 30: 90-92, 1931.
- Anthocharis sara reakirtii flavicolaris**
 Gunder, Pan-Pac. Ent. 9: 151-152, '33.
- Anthocoptes transitionalis**
 iHodgkiss, N.Y. (Gen) TB 163: 30-31, 1930.
- Anthocoridae**
 Torre-Bueno, Bklyn. Ent. Soc. B. 25: 11-20, 1930.
- Anthocoris gyalpo**
 inHutchinson, Conn. Acad. Arts & Sci. Mem. 10: 136-138, 1934.
- Anthonomus aeneotinctus**, *see* **Anthonomus eugenii**
- Anthonomus eugenii Cano (Pepper weevil)***
 Brock, Cal. Agr. Mo. B. 19: 73-74, '30.
 iElmore, J. Ec. Ent. 26: 1095-1105, '33.
 biElmore, Davis & Campbell, USDA TB 447, 1934, 27p.
 iEssig, Hist. of Ent.: 206-209, 1931.
 Fullaway, Hawaiian Ent. Soc. P. 8: 367, 1934.
 Garcia, N.Mex. R. 41: 64-65, 1931
 Hutchison, Cal. R. f. 1930-1931: 69, 1932.
 Marlatt, USDA Ent. R. f. 1930: 31-32; R. f. 1931: 42; R. f. 1932: 17; R. f. 1933: 21.
 Merrill, Cal. R. f. 1928-1929: 72, 1930.
 biMex. Agr. & Fomento. Principales Plagas: 202-204, 1930.
 Ryan, Cal. Agr. Mo. B. 19: 291, 1930.
 Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 22.
 White, Market Grow. J. 48: 391, 393, 1931.
 bWoodbury, Nat. Cannery Assoc. Bur. Raw. Prod. Res. Mem. Com. Sci. Res. Jan. 1933: 113-114.
- †Anthonomus grandis Boh. (Boll weevil)***
 Barre, S.C. R. 43: 61, 1930.
 Berly, S.C. R. 43: 18, 1930.
 Bondy, S.C. R. 45: 115-119, 1932.
 Bondy & Rainwater, S.C. R. 47: 100-102, 1934.
- Brannen, Ark. B. 297: 26-30, 1934.
- iBrannon, Better Crops 16(6): 19, 61-62, 1931.
- Brunson, S.C. Ext. C. 104, 1930, 16p.
- Calhoun, Fla. Ent. 14: 72-75, 1930.
- Calhoun, S.C. Wkly. News Notes 19: 46, 1931.
- iCook, La Hacienda 26: 248-249, 342-344, 1931.
- Doane, Common Pests: 244-245, 1931.
- Doyle, USDA YB f. 1933: 117.
- Dunn, Amer. J. Pharm. 104: 674, 1932.
- Eisenhower & Chew, USDA Misc. Pub. 88: 10, 1930.
- Fleury, Cal. Agr. Mo. B. 19: 825-826, 1930.
- Flint & Metcalf, Ins. Man's Chief Competitors: 126-133, 1932.
- iFolsom, Cal. Agr. Mo. B. 19: 212-215, 1930.
- iFolsom, USDA FB 1688: 1-3, 1932.
- Grossman, Fla. Ent. 14: 45-52, 66-71, 1930.
- Harned, USDA YB f. 1933: 127.
- Hixson, Okla. R. f. 1930-1932: 256-265, 1932; R. f. 1932-1934: 271-274, 1934.
- Hopkins, La. Ext. C. 146: 59-60, 1931.
- Howard, Hist. of Appl'd Ent. 124-132, 1930.
- Howard, Sci. Month. 31: 12-17, 1930.
- Howard, Insect Menace: 312-322, '31.
- iIsely, Ark. B. 257: 54-57, 1930.
- Jones, Tex. R. 46: 51, 1933.
- iLongan, Cal. Agr. Mo. B. 20: 274-276, 1931.
- Lutken, S.C. Wkly. News Notes 19: 47, 1931.
- Lyle, Miss. St. Pl. Bd. Quar. B. 11: 4-6, 1931.
- iMcClung, Farm. & Ranch 49(1): 2, 10, 1930.
- Marlatt, USDA Ent. R. f. 1930: 34-37; R. f. 1931: 45-46; R. f. 1932: 19-20; R. f. 1933: 23-25.
- Mercier, La. Ext. C. 139: 57-58, 1930.
- biMex. Agr. & Fomento, Principales Plagas: 139, 1930.
- Robinson & Arant, Ala. Poly. R. 41: 30-31, 1931.
- bRobinson & Arant, J. Ec. Ent. 25: 759-766, 1932.

- †Anthonomus grandis Boh. Cont'd**
 iRude & Smith, J. Ec. Ent. 25: 772-776, 1932.
 Ryan, Los Angeles Co. Comm. Agr. R. f. 1932: 41.
 iSadler, Chem. & Metall. Engin. 37: 88-90, 1930.
 iSanborn et al., Okla. B. 222, 1934, 32p.
 iSanderson, Ins. Pests Farm, ed. 3: 263-270, 1931.
 iStiles, Okla. Ext. News 13(11): 2, 1932.
 iStoutamire, Fla. Dept. Agr. B. n.s. 55: 16-17, 1931.
 Wallace, Miss. B. 299: 7, 1931.
 biWolcott, Ec. Ent. of West Indies: 297-298, 1933.
- Anthonomus grandis—Calcium arsenate**
 Brannon, South. Cult. 88(1): 8, 1930.
 Doyle, USDA YB f. 1933: 117.
 Hinds, Assoc. South. Agr. Work. P. 31: 420, 1930.
 Hope, Cal. Dept. Agr. Sp. Pub. 115: 159, 1932.
 iJordan, South. Cult. 88(1): 2, 1930.
 Robinson & Arant, Ala. Poly. R. 40: 23-24, 1929; R. 44: 27, 1933.
 Ruffin, South. Cult. 88(4): 11, 1930.
- Anthonomus grandis—Chemotropometer**
 Folsom, J. Ec. Ent. 24: 827-833, 1931.
- Anthonomus grandis—Dusting**
 Brannon, South. Cult. 88(6): 9, 1930.
 iBrannon, N. C. Ext. C. 186, 1931, 8p.
 South. Cult. 88(4): 8, 1930.
- Anthonomus grandis—Early cotton injury**
 Isely, Ark. B. 312: 37-38, 1934.
 biIsely, J. Ec. Ent. 27: 762-766, 1934.
- Anthonomus grandis—Emergence & survival**
 bCalhoun, Fla. Ent. 15: 41-48, 1931.
- Anthonomus grandis—Hibernation**
 iCartwright, S.C. R. 45: 68-69, 1932; R. 46: 76, 1933; R. 47: 58, 1934.
 Dunnam & Moreland, Tex. R. 45: 33, 1932; R. 46: 42-43, 1933.
 biGrossman, Fla. Ent. 15: 21-27, 1931.
 bGrossman, Fla. B. 240, 1931, 19p.
 Reinhard, Tex. R. 44: 32, 1931; R. 45: 32-33, 1932; R. 46: 42, 1933.
 Reinhard et al., Tex. R. 47: 43-44, '34.
 Rude, J. Ec. Ent. 24: 761-762, 1931.
- Anthonomus grandis—Hosts other than cotton**
 biGaines, J. Ec. Ent. 26: 940-943, 1933; 27: 745-748, 1934.
- Anthonomus grandis—Infestation counts**
 biGaines, J. Ec. Ent. 25: 1181-1187, '32.
 Grossman, Fla. B. 241, 1931, 22p.
- Anthonomus grandis—Ingestion of poison**
 Reinhard, Tex. R. 43: 32-33, 1930; R. 44: 32, 1931; R. 45: 32, 1932.
 biReinhard & Thomas, Tex. B. 475, 1933, 33p.
- Anthonomus grandis—Losses from**
 Trent, Okla. Ext. C. 301: 43, 1932.
- Anthonomus grandis—Mechanical collector**
 iStapleton, Agr. Engin. 11: 68, 1930.
- Anthonomus grandis—Parasites**
 Grossman, Fla. Ent. 15: 8-10, 1931.
 Miller & Chrisfield, J. Ec. Ent. 23: 607-608, 1930.
- Anthonomus grandis—Poisons**
 Brunson, S.C. Wkly. News Notes 18: 41, 1930.
 Gill, Ga. St. Bd. Ent. B. 77: 48-49, '33.
 Grossman, Fla. B. 434, 1931, 2p.
 Lutken, South. Cult. 90(5): 9, 1932.
 Sanborn, Okla. R. f. 1926-1930: 237-245, 1930.
 Young, J. Ec. Ent. 27: 750-756, 1934.
- Anthonomus grandis—Poisons—Plot tests**
 Bondy, S.C. R. 45: 115-118, 1932.
 Young, J. Ec. Ent. 27: 749-756, 1934.
- Anthonomus grandis—Quarantine**
 iBarlett, Ariz. Comm. Agr. & Hort. R. 21/22: 94-96, 1931.
- Anthonomus grandis—Winter survival**
 Grossman, Fla. Ent. 15: 13-14, 1931.
 biGrossman & Calhoun, Fla. TB 233, 1931, 47p.
- Anthonomus grandis and cotton wilt**
 Taubenhaus & Christenson, Assoc. South. Agr. Workers P. 35: 344-345, 1934.
- Anthonomus grandis and fruiting time of cotton**
 iCalhoun, J. Ec. Ent. 26: 1125-1128, 1933.
- Anthonomus grandis and temperature**
 Isely, Ark. B. 280: 44-45, 1932.
- Anthonomus grandis and weather**
 biIsely, Ark. B. 271, 1932, 34p.
- Anthonomus grandis and yellow fever**
 iNash, La Hacienda 25: 454-455, 1930.

- Anthonomus grandis thurberiae** (Thurberia weevil)*
 Folsom, USDA FB 1688: 4, 1932.
 iGeorge, Ariz. Com. Agr. & Hort. R. 19-20: 52-56, 1929.
 Marlatt, USDA Ent. R. f. 1930: 38; R. f. 1931: 46-47; R. f. 1932: 21; R. f. 1933: 26.
 Strong, USDA PQCA R. f. 1931: 42.
 Strong, USDA BPQ R. f. 1933: 22-23.
- Anthonomus grandis thurberiae—Quarantine**
 Hoyt, USDA BPQ R. f. 1934: 27.
 Strong, USDA PQCA R. f. 1930: 39-40; R. f. 1931: 42; R. f. 1932: 22-23.
 Strong, USDA BPQ R. f. 1933: 22-23.
- Anthonomus musculus** Say (Cranberry weevil)*
 iPop. Mech. 53: 782, 1930.
- Anthonomus scutellaris** Lec. (Plum gouger)*
 iRuggles, Minn. Hort. 61: 154-155, '33.
- Anthonomus signatus** Say (Strawberry weevil)*
 Baerg, Ark. B. 268: 49, 1931; 280: 41-42, 1932.
 Brannen, Ark. B. 297: 96-97, 1934.
 Britton, Conn. B. 344: 166, 1933.
 Crosby et al., N.Y. (C.) Ext. B. 306: 12-13, 1934.
 Darrow & Dearing, N.C. Dept. Agr. B. Nov. 1934: 23.
 Dean, Kans. St. Hort. Soc. Bien. R. 40: 144, 1930; R. 42: 139-140, 1934.
 Friend, Conn. Veg. Grow. Assoc. R. 20: 67, 1933.
 Gorham, Maritime Farm. 37(21): 12, 1932.
 Langford, Peninsula Hort. Soc. Trans. f. 1931: 79-80.
 Lavoie, Can. Min. Agr. R. f. 1932: 154.
 Lavoie, Que. Dept. Agr. R. f. 1931/1932: 154, 1932.
 Loree, Mich. Sp. B. 182 rev. 29: 1933.
 Marlatt, USDA Ent. R. f. 1930: 27-28; R. f. 1931: 36-37.
 Price & Eddy, Ky. St. Hort. Soc. Trans. 77: 119-120, 1932.
 Sanderson, Ins. Pests Farm ed. 3: 437-438, 1931.
 Thomas, USDA YB f. 1931: 490-491.
 Walden, Conn. B. 327: 575, 1931.
- Whitehouse et al., Md. R. 43: 214-215, 1930.
 biWilcox, Mote & Childs, Oreg. B. 330, 1934, 1939.
 Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 241, 1932.
- Anthonomus vestitus**
 iGandorszky, La Hacienda 25: 209, '30.
- Anthophora neomexicana**
 Hicks, Can. Ent. 63: 175, 1931.
 biHicks, Univ. Col. Studies 21: 265-266, 1934.
- Anthrax simpsoni** and **Xylocopa virginica**
 Engelhardt, Bklyn. Ent. Soc. B. 29: 197, 1934.
- Anthrenus scrophulariae** (L.) (Carpet beetle)*
 iBugbee, Compressed Air Mag. 35: 3264, 1930.
 iFord & Covert, S. D. Ext. C. 320: 10, 1933.
 Headlee, N.J. C. 264: 3-4, 1933.
 Herrick, Rur. N.Y. 90: 658, 1931.
 biHerrick & Griswold, J. Ec. Ent. 25: 243-248, 1932.
 iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev. 42: 1934.
 biMex. Agr. & Fomento. Principales Plagas: 235, 1930.
 O'Kane, N.H. Ext. C. 132, 1931, 4p.
 iParks & Jones, Ohio Ext. B. 97 rev.: 13, 1933.
 iSanderson, Ins. Pests Farm ed. 3: 493-495, 1931.
- Anthrenus verbasci** (L.) (Varied carpet beetle)*
 iBack & Cotton, USDA FB 1260 rev.: 39, 1930.
 Herrick & Griswold, J. Ec. Ent. 26: 446-451, 1933.
 iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 41-42, 1934.
- Anthrenus verbasci—Parasites**
 biVance & Parker, P. Ent. Soc. Wash. 34: 1-7, 1932.
- Anthrenus vorax**
 iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 42-43, 1934.
 Marlatt, USDA Ent. R. f. 1932: 29.
- Anticarsia gemmatilis** (Hbn.) (Velvetbean caterpillar)*
 Blackwell, Okla. R. f. 1926/1930: 271.

***Anticarsia gemmatilis* (Hbn.) Cont'd**

- Douglas, J. Ec. Ent. 23: 684-690, 1930.
 iGonzález, Rev. de Agr. Cuba 14(3): 19-20, 33, 1932.
 Herrick, Rur. N. Y. 90: 658, 1931.
 Hinds, Assoc. South. Agr. Work. P. 31: 422-423, 1930.
 Hinds, J. Ec. Ent. 23: 711-715, 1930.
 Hinds, Sugar B. 11(23): 3, 1933.
 Hinds & Osterberger, J. Ec. Ent. 24: 1168-1173, 1931.
 Jenkins, La. B. 205: 11-12, 1930.
 Mayo, Fla. Dept. Agr. B. n.s. 68: 62, 1934.
 Watson, Fla. R. f. 1929: 53; R. f. 1930: 67.
 Watson, Fla. Ent. 15: 72, 1932; 16: 24, 1932.
- Antillaemyrmex albispina, floridanus***
 bnWheeler, B. Mus. Comp. Zool. 72(1): 27-29, 1931.
- Antioquita, A. punctigera***
 inHebard, Trans. Amer. Ent. Soc. 59: 26-31, 1933.
- Antipolistes, A. anthracella***
 inForbes, Psyche 40: 91-92, 1933.
- Antispila voraginella***
 Woodbury, Ecol. Monog. 3: 190-191, 1933.
- Antocha sp. (near opalisans)***
 nRogers, Mich. Univ. Mus. Zool. Occ. Papers 215: 24-25, 1930.
- Antonae bulbosa***
 inFunkhouser, J. N.Y. Ent. Soc. 38: 415-416, 1930.
- Antonia littoralis***
 inCockerell & Bueker, Amer. Mus. Nov. 424: 1-3, 1930.
- Antonina indica***
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 237, 1933.
- Antrocephalus stokesi***
 Gahan, Ann. Ent. Soc. Amer. 25: 737-738, 1932.
- †Ants**
 Agete, Rev. de Agr. Cuba 14(5): 46, '32.
 Agnew, South. Plant. 91(17): 12, 1930.
 Anderson, Missouri Bot. Gard. B. 19: 87, 1931.
 bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 49-50, 1931.
 Burgess, Nature Mag. 19: 265, 1932.

- Chambers, Wis. Hort. 21: 287, 1931.
 Christie, Ont. Agr. Col. R. 59: 106, '34.
 Cory & Langford, Md. Ext. B. 68: 11-12, 1933.
 iDixon, Amer. Mag. 109(6): 73, 148, 151-152, 1930.
 iElling, Country Home 58(4): 23, 53-56, 1934.
 Essig & Hoskins, Cal. Ext. C. 87: 89, 1934.
 Eubanks, Flow. Grow. 19: 173, 1932.
 iFord & Covert, S.D. Ext. C. 320: 12-14, 1933.
 Fosbery, Illus. Can. For. & Outdoors 26: 514, 1930.
- biHerrick & Griswold, N.Y. (C.) Ext. B.**
 202: 24-30, 1931.
- Jones, Col.-Wyo. Acad. Sci. J. 1(3): 62-63, 1931.
- iKnowlton, Utah Leaf. 28, 1934, 4p.
 Lindemann, Lawn Care 6(5): 3, 1933.
 McDaniel, Mich. Sp. B. 214: 98-99, 1931.
- iMann, Nat. Geog. Mag. 66: 171-192, 1934.
- iMunro & Riddle, N.D. C. 42 rev. 10-11, 1933.
- Pettit, Mich. Ext. B. 117: 18-19, 1931.
- iPring, Missouri Bot. Gard. B. 21: 99, 1933.
- bQuayle, Cal. B. 542: 63-65, 1932.
 Regan, Wash. St. Hort. Assoc. P. 25: 135-136, 1929.
 Ruggles, Minn. Ext. C. 38, 1932, 4p.
 Sandholt, Nature Mag. 15: 123, 1930.
 Thomson & Haskins, Lit. Dig. 109: 44-46, Apr. 4, 1931.
 Walker, Flow. Grow. 17: 468, 1930.
 Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 28-29, 1932.
 Wallace et al., Ind. Dept. Conserv. R. 14: 57, 1932.
 Watson, Fla. B. 232: 22-24, 1931.
- iWheeler, Pop. Mech. 56: 941-943, '31.
 iWheeler, Sci. Month. 34: 397-402, '32.
 Wolff, Nature Mag. 17: 243-246, 1931.
 Wolff & Williams, Tex. Cit. 11(5): 16-17, 1934.
- Ants—Behavior**
 iEvans, J. Comp. Psychol. 14: 183-189, 1932.

- iRau, Acad. Sci. St. Louis Trans. 28: 207-215, 1934.
- iSchneirla, J. Comp. Psychol. 15: 243-266, 1933.
- Ants—Cape Cod, Mass.**
Sturtevant, Psyche 38: 73-79, 1931.
- Ants—Chicago**
bTalbot, Ecology 15: 416-439, 1934.
- Ants—Citrus**
Watson, Fla. Grow. 41(5): 12, 1933.
Watson, Cit. Ind. 15(11): 9, 25, 1934.
Watson & Berger, Fla. Ext. B. 67: 124-125, 1932.
- Ants—Colony-founding**
Wheeler, Science n.s. 76: 532-533, 1932.
biWheeler, Colony-founding among Ants, 1933, 170p.
- Ants—Dahlias**
Kunzman, Fla. Grow. 18: 418, 1931.
Amer. Dahlia Soc. B. 56: 47, 1931.
- Ants—Fla.**
Smith, Fla. Ent. 14: 1-6, 1930.
Smith, Fla. Ent. 17: 21-26, 1933.
Wheeler, J. N.Y. Ent. Soc. 40: 1-17, 1932.
- Ants—Fumigation**
Hayes, Goldfom 7(4): 22-23, 1933.
- Ants—Gardens**
Sherwood, W.Va. Ext. C. 305: 11-12, 1934.
Webster, Wash. Ext. B. 186: 1, 1934.
- Ants—Golf greens**
Pettit, Mich. Ext. B. 125: 8, 1932.
Goldfom 5(2): 108-113, 1931.
- Ants—Habits**
Hayes, Goldfom 7(4): 22, 1933.
Langdon-Davies, Forum 90: 351-354, 1933.
iSchneirla, Learning and Orientation in Ants, 1929, 143p.
- Ants—Hawaii**
bWheeler, Bernice P. Bishop Mus. Occ. Pap. 10(21), 1934, 21p.
- Ants—Household**
Back, Rev. Unidas 46(9): 22-23, 1930.
iBentley & Rogers, Tenn. Pl. Dis. Control B. 40, 1931, 19p.
biMex. Agr. & Fomento. Principales Plagas: 238, 1930.
- Ants—Insecticides—Argentine ant poison**
iHaug, Ann. Ent. Soc. Amer. 27: 621-632, 1934.
- Ants—Insecticides—Carbolic acid & whale oil soap**
Watson, Fla. Grow. 41(5): 12, 1933.
- Ants—Insecticides—Carbon bisulphide**
Herrick, Rur. N.Y. 89: 910, 1930.
W.T.H., Flow. Grow. 20: 20, 1933.
Farm. Res. 1(3): 5, 1934.
Hort. n.s. 10: 240, 1932.
- Ants—Insecticides—Chemical emulsion**
Mumford, Ill. R. 44: 148, 1931.
- Ants—Insecticides—Cyanogas**
iAgr. Mex. 1: 385-386, 1934.
- Ants—Insecticides—Paradichlorobenzine**
iAgr. Mex. 1: 386-387, 1934.
- Ants—Insecticides—Poisons**
Amsler, Lawn Care 7(4): 3, 1934.
Back, Rev. Unidas 46(9): 22-23, 1930.
Bee, Lawn Care 7(3): 4, 1934.
Bentley & Rogers, Tenn. Pl. Dis. Control B. 40: 17, 1931.
Cory, Md. Ext. Serv. News 17(1): 4, 1932.
Cory, Wis. Hort. 24: 225, 1934.
Currie, Pac. Rur. Press 127: 493, 1934.
iMitchener, Nor' west Farm. 53(6): 15, 1934.
Rathbun, Petroleum Age 26(5): 30-31, 1932.
iRuggles, Minn. Hort. 59: 164-165, '31.
iRuggles, Minn. Ext. Div. C. 38, July 1932, 4p.
Sanders, Md. Ext. Serv. News 15(4): 2, 1930.
Wolff & Williams, Cal. Cult. 81: 461, 463, 1934.
- Ants—Insecticides—Sodium cyanide**
Watson, Fla. Grow. 38(12): 26, 1930;
39(10): 16, 1931; 40(5): 23, 1932.
- Ants—Insecticides—Sodium fluoride**
Ehrhorn, Hawaiian Ent. Soc. P. 7: 393-394, 1931.
- Ants—Insecticides—Tartar emetic**
Christenson, Flow. Grow. 20: 859, '33.
Stiles, Okla. Ext. News 12(9): 3, 1931.
- Ants—Insecticides—Thallium sulphate**
Flor. Exch. 80(25): 23, 1932
- Ants—Insecticides—White Karo and emetic**
Whelan, Flow. Grow. 20: 175, 1933.
- Ants—Islands, West Coast Cal.**
Wheeler, Pan-Pac. Ent. 10: 132-144, 1934.

Ants—Lawns

Blauvelt, N.Y. (C.) Ext. B. 296: 43, 1934.

Bralliar, Flow. Grow. 18: 395-396, '31.

Chadwick, Flor. Rev. 70(1805): 64, '32.

Chambers, Wis. Hort. 20: 284, 1930.

Mumford, Ill. R. 44: 148, 1931.

Ruggles, Seed World 34(3): 28, 1933.

Watson, Fla. Grow. 39(10): 16, 1931.

Ants—Melons

Kenyon, Cal. Cult. 78: 488, 1932.

Ants—Mermis parasites

Wheeler, Psyche 40: 20-31, 1933.

Ants—Mississippi

Smith, Ent. News 41: 16-24, 1931.

Smith, Ent. News 43: 157-160, 1932.

Ants—Mulberry

Christianson, Flow. Grow. 20(8): 359, 1933.

Ants—Pineapple

biPhillips, Hawaii Exp. Sta. Pine. Prod.

Coop. Assoc. Ltd. B. 15, 1934, 57p.

Ants—Puerto Rico

Colón, P.R. Dept. Agr. & Com. Inf.

An. Span. ed. f. 1931-1932: 97-98.

Dominguez, P.R. Dept. Agr. & Com.

Inf. An. Span. ed. f. 1932-1933: 147-148.

Ants—Repellents

Ford, Cal. Cult. 75: 205, 1930.

Ants—Roses

Watson, Fla. Grow. 39(7): 14, 1931.

Ants—Semi-desert

biCole, Ohio J. Sci. 32: 533-538, 1932.

Cole, Ent. News 44: 16-19, 1933; 45: 96-101, 113-116, 1934.

biCole, Ann. Ent. Soc. Amer. 27: 388-405, 1934.

Ants—Sexual phases

Smith, Ent. News 45: 247-251, 264-267, 1934.

Ants—South Carolina

Smith, J. N.Y. Ent. Soc. 42: 353-361, 1934.

Ants—Southern California

Green, J. Ent. & Zool. 23: 25, 1931.

Ants—Traps

iBentley & Rogers, Tenn. Pl. Dis. B. 40: 18, 1931.

Ants—West Indies

Aguiayo, Bklyn. Ent. Soc. B. 27: 215-227, 1932.

Ants and aphids

biAndrews, Physiol. Zool. 3: 467-484, '30.

Bremner, Cal. Cult. 77: 488-489, 1931.

Ants and Cicadidae

iBiagini, Lit. Dig. 104(1): 40, 1930.

Ants and climate

iPhillips, Hawaii Pineapple Prod. B. 15: 24-42, 1934.

Ants and mealy bugs

Illingworth, Pineapple News 4(2): 2.22-29, 1930.

Flor. Rev. 70(1809): 20, 1932.

Ants and moles—Cyanogas

Rur. N.Y. 91: 643, 1932.

Ants and root knot

Watson, Fla. Grow. 39(11): 24, 1931.

Ants, see also Formicoidea**Anuraphis arundinariae**

in Tissot, Fla. Ent. 16: 49-52, 1933.

Anuraphis bakeri (Cowen) (Clover aphid)*

Knowlton & Sorenson, Utah Leaf. 44: 3, 1934.

Anuraphis cardui (L.) (Thistle aphid)*

iNewcomer, USDA C. 270: 50, 1933.

Anuraphis gladioli, see Anuraphis tulipae**Anuraphis helichrysi**

iNewcomer, USDA C. 270: 50, 1933.

Anuraphis iteae

in Tissot, Fla. Ent. 16: 52-54, 1933.

Anuraphis maidi-radici (Forbes) (Corn root aphid)*

Doane, Common Pests: 243, 1931.

Folsom, USDA FB 1688: 25, 1932.

Harned, USDA YB f. 1933: 127.

iHottes & Frison, Ill. Nat. Hist. Surv.

B. 19(3): 202-205, 1931.

McDaniel, Mich. Sp. B. 214: 54, 1931.

iSanderson, Ins. Pests Farm ed. 3: 128-132, 1931.

Anuraphis maidi-radici—Crop rotation

Mumford, Ill. R. 45: 130-131, 1932.

Mumford, Ill. R. 46: 141, 1933.

Anuraphis minima

in Tissot, Fla. Ent. 16: 54-57, 1933.

Anuraphis persicae-niger (Smith) (Black peach aphid)*

Hutson, Mich. Sp. B. 244: 37-38, 1933.

McClintock, Phytopath. 21: 383, 1931.

iNewcomer, USDA C. 270: 60-61, 1933.

iSanderson, Ins. Pests Farm ed. 3: 402, 405, 1931.

Weldon, Pac. Rur. Press 119: 534, 1930.

Anuraphis roseus (Baker) (Rosy apple aphid)*

- Alden, Ga. St. Bd. Ent. B. 73: 11-14, 1930.
 Bailey, Vt. St. Com. Agr. Bien. R. 17: 74, 1934.
 Britton, Conn. B. 344: 77, 1933.
 Crosby, N.Y. St. Hort. Soc. 77: 8-9, 1932.
 Cutright, Ohio B. 446: 82, 1930.
 bCutright, Ohio B. 464: 8-11, 1930.
 Deaver, Northw. Fr. Grow. 3(4): 11, 18, 1931.
 Glasgow, N.Y. St. Hort. Soc. P. 76: 13, 1931.
 Hartzell, Md. Hort. Soc. P. 36: 8-16, 1934.
 Headlee, N.J. R. 50: 145, 1929; 51: 144, 1930.
 Headlee, N.J. St. Hort. Soc. P. f. 1931: 44-46.
 Hodgkiss, Penn. St. Hort. Assoc. News 8: 19-20, 1931.
 Hodgkiss, Penn. St. Hort. Assoc. P. 73: 28-30, 1932; P. 75: 56-60, 1934.
 Kelsall, Maritime Farm. 37(14): 17, 1932.
 biLockwood, Cal. Agr. Mo. B. 22: 325, 1933.
 iNewcomer, USDA C. 270: 21-22, 1933.
 iParrott & Glasgow, N.Y. (Gen.) B. 582, 1930, 32p.
 iPettit & Hutson, Mich. C. B. 137: 32-33, 1931.
 Pickett, N.S. Fr. Grow. Assoc. R. 70: 54, 1933.
 Quaintance & Siegler, USDA FB 1270 rev.: 25-27, 1931.
 iRoss, Can. Dept. Agr. B. 129: 48-49, 1930.
 Seaver, Better Fruit 27(11): 7, 1933.
 iSnodgrass, Smithsonian, Sci. Ser. 5: 160, 168-169, 1930.
 Williams, Ohio B. 532: 46, 1934.
 Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 241-242, 1932.
- Anuraphis roseus—Parasites**
 Deaver, Northw. Fr. Grow. 3(4): 18, 1931.
- Anuraphis roseus—Spraying**
 Parrott, J. Ec. Ent. 23: 182-184, '30.
 iParrott & Glasgow, N.Y. (Gen.) B. 582, 1930, 32p.

Anuraphis roseus—Stigmonose

- biRose et al., USDA Misc. Pub. 168: 48, 1933.
- Anuraphis roseus—Tar distillate emulsions**
 Hartzell, Md. Agr. Soc. R. 18: 102-110, 1934.
 Hartzell, Penn. St. Hort. Assoc. P. 75: 75-86, 1934.
 Hartzell & Parrott, N.Y. (Gen.) B. 636: 18-29, 1934.
- Anuraphis roseus—Tar oil sprays or washes**
 Burrell, N.H. Hort. Soc. R. 23: 34-36, 1933.
 Hartzell, Conn. Pom. Soc. P. 44: 94-106, 1934.
- Anuraphis tulipae (Tulip bulb-aphid)**
 McDaniel, Mich. Sp. B. 214: 56, 1931.
 McDaniel, Mich. C. B. 149: 19-20, '34.
 Walden, Conn. B. 338: 598-599, 1932.
 Wallace, Ind. Dept. Conserv. R. 13: 61, 1931.
 Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1931: 35, 1932.
- Anurogryllus abortivus**
 Rev. de Agr. Cuba 14(5): 82-83, 1932.
- Anusoidea comperei**
 Compere & Smith, Hilgardia 6: 606, 1932.
- Anystis agilis**
 Ross & Putnam, Ent. Soc. Ont. R. 64: 37, 1933.
- Aonidia shastae**
 Essig, Cal. Cult. 77: 487, 1931.
 Essig, Pan-Pac. Ent. 8: 48, 1931.
- Aonidiella aonidium, see Chrysomphalus aonidium**
- Aonidiella aurantii, see Chrysomphalus aurantii**
- Aonidiella citrina, see Chrysomphalus citrinus**
- Aorurus subcloatus**
 inChristie, J. Agr. Res. 42: 477-481, 1931.
- Apachyus depressus**
 Rehn, Trans. Amer. Ent. Soc. 59: 6-7, 1933.
- Apanteles bedelliae**
 iBritton, Conn. B. 349: 450-451, 1933.
- Apanteles bushnelli**
 nMuesebeck, P. Ent. Soc. Wash. 35: 196-197, 1933.

- Apanteles cingiliae**
nMuesebeck, PUSNM 79(16): 6-7, 1931.
- Apanteles congregatus**
iWatson, Fla. B. 232: 103, 1931.
- Apanteles depressariae**
nMuesebeck, PUSNM 79(16): 3-4, 1931.
- Apanteles diatraeae**
iDavis et al., USDA TB 388: 46, 1933.
Wolcott, Ec. Ent. of West Indies: 178-179, 1933.
- Apanteles epinotiae**
Nickels, Nat. Pecan. Grow. Assoc. P. 30: 69, 1931.
- Apanteles glomeratus**
bEssig, Hist. of Ent.: 323-325, 1931.
Howard, Hist. of Appl'd Ent.: 498-499, 1930.
iPeña, La Hacienda 25: 74-75, 1930.
- Apanteles halisidotae**
nMuesebeck, PUSNM 79(16): 5-6, 1931.
- Apanteles homoeosomae, impunctatus**
nMuesebeck, P. Ent. Soc. Wash. 35: 193-195, 1933.
- Apanteles lacteicolor**
biProper, J. Agr. Res. 48: 360-361, 1934.
bSchaffner, Ann. Ent. Soc. Amer. 27: 586, 1934.
- Apanteles marginiventris**
bWilson, Fla. Ent. 17(1): 5, 1933.
- Apanteles melanoscelus**
Brown, USDA C. 176: 8-9, 1931.
Collins & Jones, USDA YB f. 1932: 237.
biProper, J. Agr. Res. 48: 362-363, 1934.
bSchaffner, Ann. Ent. Soc. Amer. 27: 587, 1934.
- Apanteles molestae**
nMuesebeck, P. Ent. Soc. Wash. 35: 51-52, 1933.
- Apanteles papaipemae**
Decker, Iowa Res. B. 143: 344-345, '31.
- Apanteles paralechiaae**
Muesebeck, PUSNM 79(16): 2-3, 1931.
- Apanteles schaffneri**
nMuesebeck, PUSNM 79(16): 4-5, 1931.
- Apanteles solitarius**
Brown, USDA C. 176: 8-10, 1931.
Collins, Mass. Comm. Conserv. St. For. R. f. 1932: 28.
Lyne, Cal. Dept. Agr. Mo. B. 23: 232, 1934.
Marlatt, USDA Ent. R. f. 1932: 25.
biProper, J. Agr. Res. 48: 364-366, 1934.
- Apanteles sorghiae**
nMuesebeck, P. Ent. Soc. Wash. 35: 195-196, 1933.
- Apanteles sp.**
Cartwright, USDA C. 289: 3, 9-13, '33.
bClark, USDA TB 455: 22, 1934.
- Apanteles thompsoni**
biVance, USDA TB 233, 1931, 28p.
- Apanteles xanthopus**
nJaynes, USDA TB 363: 21, 1933.
- Apanteles nais**
biLearned, J. N.Y. Ent. Soc. 40: 167-181, 1932.
- Apate francisca, see Apate monachus**
Apate monachus (Coffee stem borer)
iArango, Rev. de Agr. Cuba 12(1): 54-55, 1930.
Leonard, P.R. Dept. Agr. J. 16: 127, 1932.
iWolcott, Ec. Ent. of West Indies: 313-315, 1933.
- Apatela aclia**
nBenjamin, Pan-Pac. Ent. 9: 60-61, '33.
- Apatela populi** (Yellow poplar caterpillar)
biSoraci, N.J. Dept. Agr. C. 243: 17-18, 1934.
- Apateticus bracteatus**
biBaker, Can. J. Res. 4: 206-208, 1931.
- Apelma brevis**
illingworth, Hawaiian Ent. Soc. P. 8: 541-543, 1934.
- Apelocera, see Eplophorus**
- Apemon manteri, similis**
inJohnson, Psyche 38: 22-24, 1931.
- Apenes (s.s.) delicata, laevicincta, lata**
nDarlington, Psyche 41: 118-120, 1934.
- Aphaenogaster fulva aquia**
Hendrickson, Bklyn. Ent. Soc. B. 25: 78-79, 1930.
- Aphaenogaster (Attomyrma) huachucana**
bnCreighton, Psyche 41: 189-193, 1934.
- Aphaenogaster (Deromyrma) takahashii**
inWheeler, N. Eng. Zool. Club P. 11: 96-97, 1930.
- Aphaenogaster texana**
Smith, Ent. News 41: 17, 1931.
- Aphaenogaster texana macrospina**
inSmith, Ann. Ent. Soc. Amer. 27: 386-387, 1934.
- Aphaenogaster (Attomyrma) texana miamiana**
nWheeler, J. N.Y. Ent. Soc. 40: 5-6, '32.

Aphaenogaster treatae

Wheeler & Wheeler, *Psyche* 41: 11-12, 1934.

Aphalara spp.

Klyver, *Can. Ent.* 62: 172-173, 1930.
in Klyver, *Pan-Pac. Ent.* 7: 133-137, '31.
Klyver, *Pan-Pac. Ent.* 8: 11-14, 1931.
Klyver, *Ent. News* 43: 9-11, 1932.

Aphalaroida intermedia

in Klyver, *Pan-Pac. Ent.* 7: 139-140, '31.

Aphanocorynes humeralis

Swezey, *Hawaiian Ent. Soc. P.* 8: 235, 1933.

Aphanodon luctus

n Walley, *Can. Ent.* 66: 237-238, 1934.

Aphanogmus spp.

n Whittaker, *P. Ent. Soc. Wash.* 32: 131-133, 1930.

Aphanosara, A. planistes

in Forbes, *N.Y. Acad. Sci. Sci. Surv. P.R.* 12(1 sup.): 361-362, 1931.
in Forbes, *P.R. Dept. Agr. J.* 15: 361-362, 1931.

Aphanothrips obscurus

Ross & Putnam, *Ent. Soc. Ont. R.* 64: 37, 1933.

Aphantolepis, A. quadricolor

in Wheeler, *Psyche* 37: 44-47, 1930.

Aphelenchoides fragariae

Courtney, *P. W. Wash. Hort. Assoc.* 25: 20, 1934.
i Courtney & Reynolds, *Helminth. Soc. Wash. P.* 1: 59-61, 1934.
i Steiner, *Helminth. Soc. Wash. P.* 1: 58-59, 1934.
i Stevens & Mook, *J. Ec. Ent.* 25: 447-454, 1932.
Wallace, *Ind. Dept. Conserv. R.* 13: 53, 1931.

Aphelenchoides parietinus

i Strong, *USDA BPQ SRA* 112: 81, 1932.

Aphelenchoides subtennis

i Strong, *USDA BPQ SRA* 112: 81, 1932.

Aphelenchoides xylophilus

in Steiner & Buhner, *J. Agr. Res.* 48: 949-951, 1934.

Aphelenchus coccophilus and plant diseases

i Toro, *Rev. Agr. P.R.* 26: 43, 1931.

Aphelenchus coccophilus and Trinidad root disease

Strong & Shattuck, *Harv. Univ. Inst.*

Trop. Biol. Contrib. 5: 389, 392, '30.

Aphelenchus fragariae, see Aphelenchoides fragariae**Aphelenchus olesistis**

i McDaniel, *Mich. Sp. B.* 214: 25, 1931.

Aphelinoidea plutella

Knowlton & Bowen, *Utah Acad. Sci. P.* 7: 75, 1930.

Aphelinus diaspidis, see Aphytis diaspidis**Aphelinus mali**

Baird, *Ont. Veg. Grow. Assoc. R.* 26: 39, 1931.

Childs & Gillespie, *J. Ec. Ent.* 25: 1013-1016, 1932.

Glendenning, *B.C. Ent. Soc. P.* 28: 29, 1931.

Howard, *J. Ec. Ent.* 23: 286, 1930.

Jardine, *Oreg. Bien. R. f.* 1928-1930: 127.

i Newcomer, *USDA C.* 270: 65, 1933.

Venables, *B.C. Ent. Soc. P.* 28: 16-18, 1931.

Weir, *Can. Min. Agr. R. f.* 1931/1932: 178.

i Yothers, *Wash. St. Hort. Assoc. P.* 30: 68-71, 1934.

Aphelinus perpallidus

Moznette, *USDA FB* 1654: 41, 1931.

Aphelogliutus, A. latifrons

in Greene, *P. Ent. Soc. Wash.* 36: 32-33, 1934.

Aphelonema, A. convergens, minuta

n Bunn, *J. Kans. Ent. Soc.* 3: 73-77, '30.

Aphelonotus spp.

in Harris, *Bklyn. Ent. Soc. B.* 26: 13-20, 1931.

Aphelopus sp.

i Garman & Townsend, *Conn. B.* 349: 431, 1933.

Aphidae, see Aphididae**Aphidencyrus aphidivorus**

Swezey, *Hawaiian Ent. Soc. P.* 8: 373, 1934.

Aphidencyrus schizoneurae, see Aphidencyrus aphidivorus**Aphididae**

Gillette, *Col.-Wyo. Acad. Sci. J.* 1(5): 84-85, 1933.

i Gillette & Palmer, *Ann. Ent. Soc. Amer.* 24: 827-934, 1931; 25: 369-496, 1932; 27: 133-255, 1934.

Aphididae Cont'd

bGranovsky, P. Ent. Soc. Wash. 35: 29-43, 1933.

Hottes, P. Biol. Soc. Wash. 46: 1-23, 1933.

biHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 121-447, 1931.

biShinji, J. Morph. 51: 373-433, 1931.

Aphidius phorodontes

Baird, Ent. Soc. Ont. R. 65: 73, 1934.

Aphidoletes meridionalis

iSanderson, Ins. Pests Farm ed. 3: 27-28, 1931.

Aphids

bAndre & Tate, Iowa J. Sci. 7: 499-503, 1933.

Arterburn, Ill. St. Hort. Soc. Trans. 64: 197-198, 1930.

Avery, Glad. Rev. 9: 199, 1932.

biBaker, Mex. Univ. Nac. Inst. Biol. Anal. 5: 209-222, 1934.

inBartholomew, Ann. Ent. Soc. Amer. 25: 713-727, 1932.

Beal, N.Y. (C.) Ext. B. 213: 29, 1931.

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 28-30, 1931.

Blanchard, USDA C. 307, 1934, 6p.

iBourne, Mass. Ext. Leaf. 20 rev.: 23, 1933.

iBrittain, J. Agr. & Hort. 37(1): 11, 30, 1933.

Burdette, N.J. St. Hort. Soc. P. f. 1930: 153-156, 1931.

iBurdette & Headlee, N.J. C. 311: 11-13, 1934.

iDavis, Ind. Ext. B. 168: 30-31, 1930; B. 186: 17, 1932.

iDoane, Common Pests: 287-289, 1931.

Dustan, Can. Dept. Agr. Ent. B. 32: 14-15, 1932.

Emmert, Market Grow. J. 46: 294, '30.

Garman, Conn. B. 349: 433-434, 1933.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 40-41, 1934.

Gould, Va. Tr. Exp. St. B. 71: 811-835, 1930.

iHaseman & Jones, Missouri B. 342: 10-13, 1934.

Hedrick, N.Y. (Gen.) R. 51: 40, 1932.

Hopkins, La. Ext. C. 146: 60-61, 1931.

Hottes & Frison, Ill. Nat. Hist. Surv.

B. 19(3): 145-146, 1931.

iHull, J. Ec. Ent. 23: 715-717, 1930.

King, Ent. Soc. Ont. R. 61: 25-26, '31.

Knowlton, Utah Acad. Sci. P. 9: 109-110, 1932.

McDaniel, Mich. Sp. B. 214: 48-49, 1931.

inMiller, Can. Ent. 65: 249-253, 1933.

Palmer, Col.-Wyo. Acad. Sci. J. 1(5): 82-83, 1933.

iPartlow, Purdue Agr. 28: 34, 1934.

Pickett, N.S. Fr. Grow. Assoc. R. 68/69: 21, 1931; R. 71: 41, 1934.

Pope, Hawaii B. 71: 15, 1934.

Potter, et al., N.H. Ext. B. 47: 42, '34.

Regan, Wash. St. Hort. Assoc. P. 25: 131, 1929.

Roney, Tex. R. 46: 50-51, 1933.

Ross, Can. Dept. Agr. Pam. n.s. 31 ed. 2 rev., 1930, 8p.

Safro, Ohio Hort. Soc. P. 63: 155-171, 1930.

Sherrard, Cal. Agr. Mo. B. 19: 524-525, 1930.

iSmith, J. Kans. Ent. Soc. 5: 86, 1932.

iSnodgrass, Smithsonian. Sci. Ser. 5: 152-181, 1930.

bSorenson, Utah C. 98: 14-16, 1932.

Stoutamire, Fla. Dept. Agr. B. n.s. 44: 15-16, 1930.

Takahashi, P. Ent. Soc. Wash. 32: 1-20, 1930.

inTissot, Fla. Ent. 16: 1-12, 1932; 17: 37-45, 1933.

Tissot, Fla. R. f. 1934: 56.

Twinn, Ent. Soc. Ont. R. 64: 68, 1933; R. 65: 116-117, 1934.

Wakeland, Ida. St. Hort. Assoc. P. 33: 55-56, 1928; P. 36: 159, 1931.

Wallace, Ind. YB f. 1930: 480.

Wallace, Miss. B. 299: 7, 1931.

Webster, Wash. Ext. B. 186: 2, 1934.

Aphids—America—Early literature

Hottes, P. Biol. Soc. Wash. 44: 61-70, 1931.

Aphids—Apple

biCutright, Ohio B. 464, 1930, 59p.

Aphids—Deguelin

USDA YB f. 1933: 33.

Aphids—Homonyms

Hottes, P. Biol. Soc. Wash. 43: 179-184, 1930.

Aphids—Laboratory

Roney, Tex. R. 43: 40-41, 1930.

Roney, Tex. R. 44: 39-40, 1931.

Aphids—Nicotine

iBurdette & Headlee, N.J. C. 311: 18-29, 1934.

iChittenden & White, La Hacienda 26: 536-538, 1931.

iGriswold, La Hacienda 29: 317-319, 1934.

bQuayle, Cal. B. 542: 26, 1932.

Woodward & Waller, N.J. Dept. Agr. Exp. Sta. 1880-1930: 244, 1932.

Aphids—Nicotine sulphate

iDustan, Can. Dept. Agr. B. n.s. 161: 14-15, 1932.

iGilbert & Popenoe, USDA FB 1371 rev.: 4-5, 1934.

iMunro & Riddle, N.D. C. 42 rev.: 12, 1933.

Petch, Que. Pom. & Fr. Grow. Soc. R. 39: 39-46, 1932.

Sudds, Rur. N.Y. 89: 445, 1930.

Watson, Fla. Grow. 41(5): 12, 1933.

Aphids—Parasites

Aaron, Nature Mag. 22: 172, 1933.

bQuayle, Cal. B. 542: 25-26, 1932.

Wheeler, Cal. Cult. 78: 393, 1932.

Aphids—Potatoes

Bailey, Vt. Dept. Agr. B. 42: 13-14, 1934.

Aphids—Resistant peas

Clark, Wis. B. 425: 93-94, 1932.

Aphids—Spraying

Burrell, N.H. Hort. Soc. R. 23: 36-37, 1933.

Davis, N.H. Hort. Soc. R. 20: 48-49, 1931.

Hartzell et al., J. Ec. Ent. 26: 474-480, 1933.

biHuckett, N.Y. (Gen.) TB 210, 1933, 20p.

Hurt, Va. St. Hort. Soc. P. 38: 149-160, 1934.

iMusgrave, Purdue Agr. 27: 84, 1933.

iWatson & Berger, Fla. Ext. B. 67: 82-83, 85, 1932.

Wright, Diamond Walnut News 12(3): 7, 1930.

Aphids—Traps

Hull, Assoc. South. Agr. Works, P. 31: 423, 1930.

Aphids—Types

bShull, Biol. Rev. 4: 218-248, 1929.

Aphids and ants

Boissevain, Pac. Rur. Press 121: 57, 1931.

Aphids and plant diseases

Hoggan, Phytopath. 21: 199-211, 1931.

Slate & Rankin, N.Y. (Gen.) B. 625: 52-53, 1933.

iStewart & Glasgow, N.Y. (Gen.) TB 171: 3-21, 1930.

Stewart & Glasgow, Phytopath. 21: 103-104, 1931.

Aphids and plant diseases—Mosaic diseases

Doolittle, Veg. Grow. Assoc. Amer. R. f. 1930: 116-118.

iGregory, Ind. Ext. Leaf. 180: 4-5, 1933.

biHoggan, J. Agr. Res. 47: 689-704, 1933; 49: 1135-1142, 1934.

Koch, Science n.s. 73: 615, 1931.

Rankin, N.Y. (Gen.) TB 175: 13, 1931.

Slate & Rankin, N.Y. (Gen.) B. 625: 32-33, 49-52, 1933.

Slate & Rankin, N.Y. (Gen.) C. 153: 18-21, 1934.

iTilford, Ohio B. 511: 75, 1932.

Aphids and plant diseases—Yellow dwarf

biDrake, Tate & Harris, Iowa J. Sci. 6: 347-354, 1932.

biDrake et al., J. Ec. Ent. 26: 841-846, 1933.

Koch, Phytopath. 24: 1126-1127, 1934.

Aphidiidae, see Aphididae**Aphilanthops quadrinotatus**

Hicks, Can. Ent. 65: 141-144, 1933.

Aphiochaeta rufipes, see Megaselia rufipes**Aphis—Key**

Gillette & Palmer, Ann. Ent. Soc. Amer. 25: 374-377, 1932.

Aphis abbreviata

Gorham & Burnham, Ent. Soc. Ont. R. 65: 90, 1934.

iSimpson, Maine B. 377: 352-353, 1934.

Aphis alni, see Myzocallis alni**Aphis argentinae-radicis**

inGillette & Palmer, Ann. Ent. Soc. Amer. 25: 140-141, 1932.

Aphis astericola

inTissot, Fla. Ent. 16: 57-59, 1933.

Aphis bakeri, see Anuraphis bakeri

- Aphis bituberculata* and Sugar cane mosaic
Strong, USDA Ent. R. f. 1934: 8.
- Aphis brassicae*, see *Brevicoryne brassicae*
- Aphis caliginosa*, *chetansapa*
in Hottes & Frison, Ill. Nat. Hist. Surv.
B. 19(3): 182-183, 186-188, 1931.
- Aphis chipetae*
in Hottes, P. Biol. Soc. Wash. 46: 6-8, '33.
- Aphis coreopsidis*
Bartholomew, Ann. Ent. Soc. Amer.
25: 726, 1932.
- Aphis coronopifoliae*
in Bartholomew, Ann. Ent. Soc. Amer.
25: 716-717, 1932.
- Aphis decepta*
in Hottes & Frison, Ill. Nat. Hist. Surv.
B. 19(3): 192-193, 1931.
- Aphis feminea*
b Miller, Ent. News 43: 178-180, 1932.
i Miller, Penn. Acad. Sci. P. 7: 69-71,
1933.
- Aphis floridanae*
in Tissot, Fla. Ent. 16: 59-60, 1933.
- Aphis forbesi* Weed (Strawberry root
aphid)*
b Brooks, Fla. B. 235: 11, 1931.
Brooks, Watson & Mowry, Fla. Co-op.
Ext. B. 63: 50-51, 1932.
Chambers & Thompson, Wis. Dept.
Agr. B. 123: 23, 1931; B. 145: 37, '33.
Darrow & Dearing, N.C. Dept. Agr. B.
Nov. 1934: 22-23.
Dean, Kans. St. Hort. Soc. Bien. R. 40:
142-143, 1930.
Marlatt, USDA Ent. R. f. 1930: 28;
R. f. 1933: 20-21.
Price & Eddy, Ky. St. Hort. Soc.
Trans. 77: 120-121, 1932.
Watson, Fla. B. 232: 90-91, 1931.
- Aphis fumipennella*
bi Bissell, Ann. Ent. Soc. Amer. 25: 730-
733, 1932.
- Aphis funesta*
in Hottes & Frison, Ill. Nat. Hist. Surv.
B. 19(3): 194-195, 1931.
- Aphis gladioli*, see *Anuraphis tulipae*
- † *Aphis gossypii* Glév. (Cotton aphid)*
(Melon aphid)*
Beattie, USDA FB 1468 rev.: 24, 1930,
Brannen, Ark. B. 297: 31-32, 1934.
Britton, Conn. B. 344: 130, 1933.
- i Brooks & McDowell, Tex. C. 70: 11,
1934.
Brown, Cal. Cult. 74: 618, 1933.
- i Burdette & Headlee, N.J. C. 311: 9-10,
1934.
- i Caesar, Ont. Dept. Agr. B. 359: 48-49,
1931.
- i Chittenden & White, La Hacienda 26:
536-538, 1931.
Clark, Tex. R. 47: 238, 1934.
Compton, Ill. C. 391: 28, 1932.
Crosby & Chupp, N.Y. (C.) Ext. B.
206 rev.: 56, 1933; Ext. B. 278: 48,
1934.
- i Dustan, Can. Dept. Agr. B. n.s. 161:
58, 1932.
Edmond, Strand & McNall, Mich. Sp.
B. 193: 48, 1930.
- i Folsom, USDA FB 1688: 9-11, 1932.
Folsom, & Bondy, USDA C. 116, 1930,
1931.
- i Gilbert & Popenoe, USDA FB 1371
rev.: 25-26, 1934.
- bi Goff & Tissot, Fla. B. 252, 1932, 23p.
Gould, Va. Truck B. 71: 825-826, 1930.
Hammer, Miss. R. 43: 19-20, 1930.
- i Hammer, Miss. St. Pl. Bd. Quar. B. 11:
1-4, 1931.
Harned, Miss. R. 42: 15, 1929; R. 44:
33-34, 1931.
Harned, USDA YB f. 1933: 127.
Johnston, N.C. R. 54: 111-112, 1931.
Jones, Tex. R. 46: 51, 1933.
Leonard, Rev. Agr. P.R. 25: 163-164,
1930.
Leonard, P.R. Ins. R. f. 1929-1930:
119, 1931.
Lockwood, Cal. Agr. Mo. B. 18: 767-
768, 1929.
Lyle, Miss. R. 45: 30, 1932.
McClintock, Phytopath. 21: 383, 1931.
Marcovitch, Tenn. R. 47: 24-25, 1934.
Marlatt, USDA Ent. R. f. 1930: 41.
- bi Mex. Agr. & Fomento. Principales
Plagas: 181-182, 1930.
Pierstorff & Parks, Ohio Pl. Dis. & Ins.
Notes 1(5): 2-3, 1930.
- i Sanderson, Ins. Pests Farm ed. 3: 226-
228, 1931.
Watson, Fla. B. 232: 106-108, 1931.
i Watson & Berger, Fla. Ext. B. 67: 86-
87, 1932.

- bWolcott, Ec. Ent. of West Indies: 273-274, 1933.
- Aphis gossypii**—Color and color-variation
biWall, Ann. Ent. Soc. Amer. 26: 425-463, 1933.
- Aphis gossypii and mosaic disease**
bClayton, N.Y. (Gen.) TB 590: 8, 1931.
biKunkel, Que. Soc. Prot. Pl. R. 25/26: 29, 1934.
- biWalker, Phytopath. 23: 741-744, 1933.
Wellman, Phytopath. 22: 30, 1932.
- Aphis hieracium-venosum**
Hottes, P. Biol. Soc. Wash. 44: 62, '31.
- Aphis kachena**
nHottes, P. Biol. Soc. Wash. 47: 2-3, '34.
- Aphis knowltoni**
Hottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 199, 1931.
- Aphis laburni**
Bartholomew, Ann. Ent. Soc. Amer. 25: 726, 1932.
- Aphis lion**, *see* Chrysopidae—Larvae
- Aphis luridis**
inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 200-201, 1931.
- Aphis maidi-radidis**, *see* Anuraphis maidi-radidis
- Aphis maidis Fitch (Corn leaf aphid)***
Bieberdorf, Okla. R. f. 1926-1930: 245-248, 1930; R. f. 1930-1932: 254-255.
bBryson, J. Ec. Ent. 27: 827-832, 1934.
Call, Kans. Bien. R. 5: 108-109, 1930.
Loftin, Asoc. Tecn. Azucar. Cuba P. 4: 57, 1930.
iLoftin & Christenson, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 115 [P. Pt. 2], 1932, 20p.
Marlatt, USDA Ent. R. f. 1931: 30.
biWildermuth & Walter, USDA TB 306, 1932, 22p.
Wolcott, J. Ec. Ent. 24: 144, 1931.
- Aphis maidis and Mosaic of sugar cane**
iCook, La Hacienda 28: 164, 1933.
iFawcett, La Hacienda, 27: 63, 1932.
McClean, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 37 [P. Pt. 2]: 3, '32.
Priode, Asoc. Tecn. Azucar. Cuba P. 5: 138, 1931.
- biSein, P.R. Dept. Agr. J. 14: 40-68, '30.
Van Dine, P. Ent. Soc. Wash. 35: 84, 1933.
- Aphis medicaginis Koch (Cowpea aphid)***
Blanchard et al., USDA C. 287, 1933, 24p.
- Aphis middletonii**
Swezey, Hawaiian Ent. Soc. P. 8: 8, '32.
- Aphis nyctalis**
inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 206-208, 1931.
- Aphis pawneepae**
nHottes, P. Biol. Soc. Wash. 47: 3-5, '34.
- Aphis persicae-niger**, *see* Anuraphis persicae-niger
- Aphis pilosicauda**
inGillette & Palmer, Ann. Ent. Soc. Amer. 25: 141-142, 1932.
- †**Aphis pomi Deg. (Apple aphid)***
Alden, Ga. St. Bd. Ent. B. 73: 11-14, 1930.
iBrittain & Coulson, J. Agr. & Hort. 36: 164, 1932.
Caesar, Ont. B. 356: 26-29, 1930.
Chambers & Thompson, Wis. Dept. Agr. B. 123: 9, 1931; B. 145: 15-16, 1933.
- bCutright, J. Ec. Ent. 23: 738-741, 1930.
Cutright, Ohio B. 446: 82-83, 1930; B. 470: 88-89, 1931.
Driggers, N.J. R. 50: 147-150, 1929.
Drinkard, Va. Poly. R. f. 1927-1931: 38.
Fromme, W.Va. B. 254: 36-37, 1932; B. 263: 21, 1934.
- iGodbout, Que. Min. de l'Agr. B. 124: 20-21, 1933.
- Hartzell & Parrott, N.Y. (Gen.) B. 636: 20, 1933.
- Headlee, N.J. R. 50: 145, 1929; R. 51: 144, 1930.
Headlee, N.J. Dept. Ent. R. f. 1929: 147-150, 1930.
- iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 210-212, 1931.
- Hutson, Mich. St. Hort. Soc. R. 62: 74-78, 1933.
- biLockwood, Cal. Agr. Mo. B. 22: 325-326, 1933.
- iNewcomer, USDA C. 270: 22-23, 1933.
Peairs & Gould, W.Va. B. 244: 37-38, 1931.
- iPettit & Hutson, Mich. C. B. 137: 33-34, 1931.

†*Aphis pomi* Deg. *Cont'd*

- Pickett, N.S. Fr. Grow. Assoc. R. 70: 54, 1933.
 Quaintance & Siegler, USDA FB 1270 rev.: 27, 1931; FB 1666: 66, 1931.
 Richardson, Iowa Hort. Soc. Trans. 66: 11-12, 1931.
 iRoss, Can. Dept. Agr. B. 129: 48-49, 1930.
 Sanderson, Ins. Pests Farm ed. 3: 350-355, 1931.
 iSnodgrass, Smithson. Sci. Ser. 5: 154, 1930.
 Twinn, Ent. Soc. Ont. R. 64: 69, 1933; R. 65: 118, 1934.

Aphis pomi—Spraying

- bCutright, Ohio B. 464: 33-37, 49-52, 1930.
 Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 3: 3, 1932.

Aphis pomi and fertilization

- biCutright, Ohio B. 464: 52-57, 1930.

Aphis pseudobrassicae, *see* *Rhopalosiphum pseudobrassicae**Aphis pseudovalerianae*

- inGillette & Palmer, Ann. Ent. Soc. Amer. 25: 143-144, 1932.

Aphis pteris aquilnodes

- Hottes, P. Biol. Soc. Wash. 44: 62, '31.

Aphis pulchella

- inHottes & Frison, Ill. Nat. Hist. Surv. B 19(3): 212-213, 1931.

Aphis roseus, *see* *Anuraphis roseus**Aphis rubi*, *see* *Amphorophora rubi**Aphis rubicola*

- bWinter, Minn. TB 61: 13-14, 1929.

Aphis rubiphila, *see* *Rhopalosiphum rubiphila**Aphis rumicis* L. (Bean aphid)*

- iBateman, USDA TB 346: 27-29, 1933.
 Buchanan, Iowa R. f. 1934: 97.
 Crosby & Chupp, N.Y. (C.) Ext. B. 278: 29, 1934.
 Drake, Iowa R. f. 1934: 95-96.
 Dustan, Can. Dept. Agr. B. 161: 37, 1932.
 Gould, Va. Truck B. 71: 827-828, 1930.
 biHartzell & Wilcoxon, Boyce Thompson Inst. Contrib. 4: 107-117, 1932.
 iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 215-217, 1931.
 Murphy & Peet, J. Ec. Ent. 25: 123-129, 1932.

Aphis rumicis—Nicotine

- Shepard, J. Ec. Ent. 24: 725-731, 1931.
 biShepard & Richardson, J. Ec. Ent. 24: 905-913, 1931.

Aphis rumicis—Pine tar or pine tar oils

- Eddy, J. Ec. Ent. 27: 398-400, 1934.

Aphis rumicis—Pyrethrum toxicity

- biWilcoxon & Hartzell, Boyce Thompson Inst. Contrib. 5: 115-127, 1933.

Aphis rumicis—Pyridine & pyrrolidine

- bRichardson & Shepard, J. Agr. Res. 40: 1007-1015, 1930.

Aphis rumicis and plant diseases

- biKunkel, Que. Soc. Prot. Pl. R. 25/26: 29, 1934.

Aphis sacchari

- Swezey, Mid-Pac. Mag. 42: 326-327, 1931.

Aphis setariae, *see* *Hysteroneura setariae**Aphis signatis*

- inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 219-220, 1931.

†*Aphis spiraeicola* (Green citrus aphid)

- Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(5): 30-31, 1931.

- bFelt & Bromley, J. Ec. Ent. 24: 108-110, 1931.

- H.F.K., Cal. Cult. 76: 266, 1931.

- Hamilton & Gemmell, J. Ec. Ent. 27: 447-448, 1934.

- Thompson, Fla. St. Hort. Soc. P. 43: 106-114, 1930.

- Thompson & Zeigler, Fla. R. 45: 73, 1931.

- Tissot, Fla. R. f. 1934: 56.

- Watson, Fla. R. f. 1929: 56-57; R. f. 1930: 69-70.

- Watson, Fla. Grow. 38(3): 24, 1930; 39(1): 23, 1931; 39(2): 22-23, 1931.

- iWatson & Berger, Fla. Ext. B. 67: 72-78, 1932.

- Watson et al., Fla. R. f. 1932: 75-76; R. f. 1933: 79.

- Weldon, Pac. Rur. Press 119: 377, 1930.

- Woglum, Cal. Fr. Grow. Exch. B. 8: 6, 9, 15, 19, 1931.

Aphis spiraeicola—Diseases

- Tisdale, Fla. R. f. 1930: 96.

Aphis spiraeicola—Parasites

- iWatson & Berger, Fla. Ext. B. 67: 76-77, 1932.

- Aphis spiraecola**—Pine tar soap
Watson, Fla. R. f. 1934: 54.
- Aphis spiraecola**—Spraying
Tissot & Thompson, Fla. Ent. 14: 11-12, 1930.
- Aphis steviae**
in Baker, Mex. Univ. Nac. Inst. Biol. Anal. 5: 218-219, 1934.
- Aphis tuberculata**, *see* **Aphis feminea**
- Aphis medicaginis**
Blanchard, USDA C. 307, 1934, 6p.
- Aphis zilora**
in Hottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 224-225, 1931.
- Aphodiinae**
bi Mohr, Ill. St. Acad. Sci. Trans. 22: 263-284, 1930.
- Aphodius**
Hinton, Can. Ent. 66: 218-220, 1934.
- Aphodius browni**
n Brown, Can. Ent. 62: 2-3, 1930.
Hinton, Ent. News 45: 277, 1934.
- Aphodius cadaverinus**
Saylor, Pan-Pac. Ent. 9: 188, 1933.
- Aphodius campestris**
Sim, J. N.Y. Ent. Soc. 38: 142, 1930.
- Aphodius claudus**
n Fall, J. N.Y. Ent. Soc. 40: 188-189, '32.
- Aphodius crassulus**
Sim, J. N.Y. Ent. Soc. 38: 142, 1930.
- Aphodius crenicollis**
n Fall, J. N.Y. Ent. Soc. 40: 189, 1932.
- Aphodius davisii**
n Fall, Pan-Pac. Ent. 7: 73-74, 1930.
- Aphodius distinctus**
Saylor, Pan-Pac. Ent. 9: 188, 1933.
i Seamans, Que. Soc. Prot. Pl. R. 25/26: 111-117, 1934.
- Aphodius errans**
n Brown, Can. Ent. 62: 243-244, 1930.
- Aphodius erraticus**
Sim, J. N.Y. Ent. Soc. 38: 141, 1930.
- Aphodius fimetarius**
Thomas, J. Ec. Ent. 27: 206, 1934.
- Aphodius fortunei**
n Fall, J. N.Y. Ent. Soc. 40: 187-188, '32.
- Aphodius fossor**
i Sim, USDA C. 334: 11, 1934.
- Aphodius incommunis**
n Fall, J. N.Y. Ent. Soc. 40: 186-187, '32.
- Aphodius lentus**
Sim, J. N.Y. Ent. Soc. 38: 142, 1930.
- Aphodius linsleyi**
n Van Dyke, Pan-Pac. Ent. 9: 115, 1933.
- Aphodius lividus**
Swezey, Hawaiian Ent. Soc. P. 7: 389, 1931.
- Aphodius phaleroides**
Siepmann, Bklyn. Ent. Soc. B. 26: 270, 1931.
- Aphodius prodromus**
Sim, J. N.Y. Ent. Soc. 38: 143, 1930.
- Aphodius ruficlarus**
n Fall, J. N.Y. Ent. Soc. 40: 189-190, '32.
- Aphodius rugatus**
Davis & Sloop, Bklyn. Ent. Soc. B. 29: 82, 1934.
- Aphodius rugoclypeus**
n Hinton, Can. Ent. 66: 219, 1934.
- Aphodius serval**
Sim, J. N.Y. Ent. Soc. 38: 143, 1930.
- Aphodius smithi**, *see* **Aphodius browni**
- Aphodius sparsus sheldoni**
n Barrett, Pan-Pac. Ent. 8: 172, 1932.
- Aphodius stupidus**
Sim, J. N.Y. Ent. Soc. 38: 142, 1930.
- Aphodius testaceiventris**
n Fall, J. N.Y. Ent. Soc. 40: 185-186, '32.
- Aphodius tuberosus**
n Barrett, Can. Ent. 64: 240, 1932.
- Aphodius vandykei**
n Barrett, Pan-Pac. Ent. 7: 101-102, '31.
- Aphomia gularis**
Essig, Hist. of Ent.: 237-238, 1931.
- Aphonus castaneus**
i Sim, USDA C. 334: 9, 1934.
- Aphrissa**—Revision
bi Brown, Amer. Mus. Nov. 454, 1931, 14p.
- Aphrodite butterfly**, *see* **Argynnis aphrodite**
- Aphrophila carbonaria**
n Alexander, J. N.Y. Ent. Soc. 39: 115, 1931.
- Aphrophora**—Key
Ball, Ent. News 45: 176, 1934.
b Doering, J. Kans. Ent. Soc. 3: 58-63, 1930.
- Aphrophora parallela**
b Easterling, Ohio J. Sci. 34: 132, 1934.
Felt & Bromley, Nat. Shade Tree Conf. P. 6: 21, 1930.
Knoll, J. Ec. Ent. 25: 1196-1199, 1932.
Nace, For. Leaves 22: 117-118, 1930.
b Prebble, Can. J. Res. 9(1): 23, 1934.

- Aphrophora permutata**
Doering, J. Kans. Ent. Soc. 4(2): 49-50, 1931.
- Aphthonetus sideroxyloni**
in Swezey, Hawaiian Ent. Soc. P. 8: 200, 1932.
- Aphycus melanostomatus**
Clausen, Ann. Ent. Soc. Amer. 25: 682-683, 1932.
- Aphytis chrysomphali**
Dozier, P. Ent. Soc. Wash. 35: 90, 1933.
biQuayle, Cal. B. 542: 32-33, 1932.
iSmith, Cit. Leaves 14(7): 8, 14, 1934.
- Aphytis spp.**
Dozier, P. Ent. Soc. Wash. 35: 89-90, 1933.
Roaf, Mote & Wieman, Cal. Agr. Mo. B. 23: 325, 1934.
- Apiocera, A. bilineata**
binPainter, Ann. Ent. Soc. Amer. 25: 350-357, 1932.
- Apis dorsata (Indian honey bee)**
iHatch, Asia 33: 280-284, 1933.
Nolan, Md. Agr. Soc. R. 14: 343, 1930.
- Apis florea**
Nolan, Md. Agr. Soc. R. 14: 343, 1930.
- Apis indica**
Nolan, Md. Agr. Soc. R. 14: 343, 1930.
- Apis mellifera L. (Honeybee)***
iAaron, Nature Mag. 19: 158, 1932.
iBeckett, Iowa Agr. 35: 49, 1934.
Edmond, Md. Agr. Soc. R. 15: 340-341, 1931.
iEssig, Hist. of Ent.: 265-273, 1931.
iEvans, Better Homes & Gard. 11(7): 16-17, 66-68, 1933.
iGuyer, Animal Biol.: 232-249, 1931.
Hambleton, Dak. Farm. 50: 1016, 1930.
Lipman, N.J. R. 52: 34-35, 1931.
iMetcalfe & Flint, Fund. of Ins. Life: 48-51, 325-328, 1932.
Nolan, Md. Agr. Soc. R. 14: 341-348, 1930.
Paddock, Iowa Beekeepers' B. 10: 3, July 1931.
Paddock, Rocky Mt. Conf. Ent. R. 9: 20-21, 1932.
Park, Iowa R. f. 1934: 92-93.
Richmond, Col. B. 391: 3-6, 1932.
Robertson, S.D. St. Hort. Soc. R. 29: 12-19, 1932.
- Williams, Hawaiian Ent. Soc. P. 7: 344, 1931.
- Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 246, 1932.
- Apis mellifera—Africa**
Cockerell, J. Ec. Ent. 26: 998-1000, '33.
biHoskins & Harrison, J. Ec. Ent. 27: 924-942, 1934.
- Apis mellifera—Artificial insemination**
iStrickland, Sci. Amer. 149: 101-103, 1933.
- Apis mellifera—Atmospheric pressure and respiration**
biWoodworth, J. Ec. Ent. 25: 1036-1042, 1932.
- Apis mellifera—Bee trees**
iRau, Ecology 12: 615-616, 1931.
- Apis mellifera—Behavior**
Hambleton, Sci. Month. 39: 544-546, 1934.
- Apis mellifera—Breeding**
biNolan, USDA TB 326, 1932, 50p.
Nolan, USDA YB f. 1934: 314-316.
iPop. Sci. Month. 117(5): 44, 1930.
- Apis mellifera—Buckeye poisoning**
Ecker, J. Ec. Ent. 26: 181-187, 1933.
- Apis mellifera—Caucasian vs Italian**
biCorkins & Gilbert, Wyo. B. 186, 1932, 24p.
- Apis mellifera—Contact chemoreceptors**
biMinnich, J. Exp. Zool. 61: 375-393, '32.
- Apis mellifera—Drifting**
biCorkins, Wyo. B. 190, 1932, 24p.
- Apis mellifera—Exposed combs**
iRau, Ecology 12: 615-616, 1931.
- Apis mellifera—Flight range**
Hill, Wyo. R. 41: 29, 1931.
- Apis mellifera—Gynandromorph**
iEckert, J. Ec. Ent. 27: 1079-1082, '34.
- Apis mellifera—Honey-ripening**
iPark, J. Ec. Ent. 26: 188-193, 1933.
- Apis mellifera—Humidity**
Wolfenbarger, J. Ec. Ent. 27: 638-641, 1934.
- Apis mellifera—Hybrid—Resistance to plant poison**
Vansell & Todd, J. Ec. Ent. 25: 503-506, 1932.
- Apis mellifera—Immature forms—Nitrogen content**
biHaydak, J. Agr. Res. 49: 21-28, 1934.

- Apis mellifera—Intracellular canaliculi**
 biBeams & King, Biol. B. 64: 309-314, 1933.
- Apis mellifera—Light—Effect of**
 bBertholf, J. Agr. Res. 42: 379-419, '31.
- Apis mellifera—Metabolism**
 biCorkins & Gilbert, Wyo. B. 187, 1932, 32p.
- biFarrar, J. Ec. Ent. 24: 611-616, 1931.
- Apis mellifera—Metamorphosis**
 iOertel, J. Morph. 50: 295-332, 1930.
- Apis mellifera—Morphology—Abdomen**
 biSnodgrass, Smithson. Misc. Coll. 89(8): 114-142, 1933.
- Apis mellifera—Nectar concentration**
 biPark, Iowa Res. B. 151: 211-244, 1932.
 Vansell, J. Ec. Ent. 27: 943-945, 1934.
- Apis mellifera—Observation hive**
 iKeeler, Ohio J. Sci. 32: 539-543, 1932.
- Apis mellifera—One eyed**
 iAlfonsus, Ann. Ent. Soc. Amer. 24: 405-407, 1931.
- Apis mellifera—Orchard**
 iPhillips, N.Y. Ext. B. 190, 1930, 24p.
- Apis mellifera—Ovarioles**
 biEckert, J. Ec. Ent. 27: 629-635, 1934.
 bOertel, J. Ec. Ent. 27: 1111-1118, 1934.
- Apis mellifera—"Paralysis" of**
 Burnside, J. Ec. Ent. 26: 162-168, '33.
- Apis mellifera—pH of digestive tract**
 biHoskins & Harrison, J. Ec. Ent. 27: 927-942, 1934.
- Apis mellifera—Physical characteristics**
 bKellog & Asquith, J. Ec. Ent. 27: 641-647, 1934.
- Apis mellifera—Poisoning**
 biGinsburg, J. Agr. Res. 40: 1053-1057, 1930.
 Kremer, Amer. Fr. Grow. Mag. 50(2): 24, 34, 1930.
- Apis mellifera—Protozoan parasites**
 Elson, Amer. Nat. 67: 283-286, 1933.
- Apis mellifera—Races**
 Buchanan & Stevenson, Iowa R. f. 1933: 73.
 Rev. Unidas 46(3): 51-52, 1930.
- Apis mellifera—Respiration**
 biWoodworth, J. Ec. Ent. 25: 1036-1042, 1932.
- Apis mellifera—Stinging**
 Hambleton, Sci. News Letter 25: 350, 1934.
- Apis mellifera—Stock replacement**
 Buchanan & Stevenson, Iowa R. f. 1933: 72-73.
 Park, Iowa R. f. 1932: 58; R. f. 1934: 97.
- Apis mellifera—Superior race sought**
 USDA Off. Rec. 9(41): 2, 1930.
- Apis mellifera—Swarming**
 Pop. Sci. Month. 116(2): 60, 1930.
- Apis mellifera—Time & labor gathering honey**
 Park, Iowa Agr. Res. R. f. 1931: 59-60.
 Park, Iowa R. f. 1932: 55-56.
- Apis mellifera—Ultra violet ray**
 biBertholf, J. Agr. Res. 43: 703-713, '31.
- Aphis mellifera—Ventriculus contents and toxicity**
 biHoskins & Harrison, J. Ec. Ent. 27: 931-942, 1934.
- Apis mellifera—Visual intensity**
 biWolf, J. Gen. Physiol. 16: 407-422, '33.
- Apis mellifera and disease**
 Riley & Johannsen, Med. Ent.: 414-418, 1932.
- Apis mellifera and fire-blight**
 bPierstorff & Lamb, Phytopath. 24: 1347-1357, 1934.
- ‡Apis mellifera and pollination**
 Abrams, Md. Ext. B. 69, 1933, 19p.
 Beach, Ohio Farm. 167: 388, 1931.
 Brittain, N.S. Fr. Grow. Assoc. R. 66: 79-94, 1930; R. 68/69: 40-46, 1931.
 bCorkins, J. Ec. Ent. 25: 820-825, 1932.
 Dodge, Better Homes & Gard. 9(9): 42, 120-122, 1931.
 Filmer, N.J. Agr. 15(4): 3-4, 1933.
 Hootman, Kans. St. Hort. Soc. Bien. R. 41: 61-67, 1932.
 Hootman, Missouri St. Hort. Soc. P. f. 1931-1932: 59-67.
 Larsen, S.D. Bien. R. f. 1930-1932: 23.
 McDaniels, N.Y. St. Hort. Soc. P. 76: 32-37, 1931.
 biMurneek, Missouri Res. B. 175, 1932, 31p.
 Parker, Kans. St. Hort. Soc. Bien. R. 40: 113-118, 1930.
 iPellett, Flow. Grow. 17: 413-414, 1930.
 Pellett, Iowa St. Hort. Soc. Trans. 69: 45-49, 1934.
 Phillips, N.Y. (C.) R. 44, Pt. 2: 46, '31.

- †*Apis mellifera* and pollination *Cont'd*
 Phillips, N.Y. St. Hort. Soc. P. 76:
 37-50, 1931; 77: 43-53, 1932.
 Phillips, Va. St. Hort. Soc. P. 36: 150-
 161, 1931.
 biRichmond, Col. B. 391, 1932, 22p.
 Schoene, Va. Fruit 19(3): 4, 6, 1931.
 Street, Hoosier Hort. 12: 42-44, 1930.
 Vansell, J. Ec. Ent. 27: 943-945, 1934.
 iWellington, N.Y. (Gen.) C. 132 rev.
 1932, 20p.
 Woodrow, N.Y. (C.) R. 46: 109, 1933.
- Apis mellifica*, *see* *Apis mellifera*
- Aplognathus remotus*
 nLinsley, Ent. News 45: 161, 1934.
- Aplastus*, *A. arizonicus*, *cylindricus*, *pilosus*
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20:
 459-464, 1932.
- Apoderus bilineatus*
 iTieu, Pac. Sci. Cong. 4, P. 4: 392-394,
 1930.
- Apogonia carlotae*
 inChapin, J. Wash. Acad. Sci. 21: 310-
 311, 1931.
- Aponomma exornatum*
 Bequaert, Amer. Mus. Nov. 426: 7, '30.
- Aporia crataegi adherbal*
 bClausen, USDA C. 168: 22, 1931.
- Aporinellus bakeri*
 nBanks, Amer. Acad. Arts & Sci. P.
 69(1): 106-107, 1934.
- Aporinellus basalis*, *bequaerti*
 nBanks, Psyche 40: 3-4, 1933.
- Apostrophus anthophilus*
 iGreene, P. Ent. Soc. Wash. 36: 35, '34.
- Apostrophusia*
 nTownsend, J. N.Y. Ent. Soc. 40: 454-
 455, 1932.
- Apotettix eurycephalus*, *see* *Paratettix*
rugosus
- Apotoforma*
 nBusck, Ent. Amer. n.s. 13: 153-154, '33.
- Appias ilaire*—Florida
 Bates, Ent. News 45: 167, 1934.
- **Apple and thorn skeletonizer*, *see* *Hemero-*
phila pariana Clerck
- **Apple aphid*, *see* *Aphis pomi* Deg.
- **Apple curculio*, *see* *Tachypterellus quad-*
rigibbus Say
- **Apple flea weevil*, *see* *Orchestes palli-*
cornis Say
- Apple fruit fly*, *see* *Rhagoletis pomonella*
- **Apple fruit miner*, *see* *Marmara pomonella* Busck
- **Apple fruit moth*, *see* *Argyresthia con-*
jugella Zell.
- **Apple grain aphid*, *see* *Rhopalosiphum*
prunifoliae Fitch
- †*Apple insects*
 Alden, Ga. St. Bd. Ent. B. 73, 1930,
 31p; 77: 16-17, 22, 1933.
 biAllen & Fluke, J. Ec. Ent. 26: 1108-
 1112, 1933.
 Barss & Mote, Oreg. Ext. B. 431: 6-11,
 1931.
 Betten, N.Y. (C.) R. 45: 120-121, '32.
 Bourne, Mass. Fr. Grow. Assoc. Inc.
 R. 37: 123-131, 1931.
 Bowman, Ida. Dept. Agr. Bien. R. 6:
 50-52, 1930.
 iBrittain, J. Agr. & Hort. 35: 174-175,
 1931.
 Brittain, Que. Pom. & Fr. Grow. Soc.
 R. 40: 57-62, 1933.
 iCaesar, Ont. B. 356: 11-48, 1930.
 Chapman, N.Y. St. Hort. Soc. P. 79:
 201-206, 1934.
 iChapman & Hammer, N.Y. (Gen.) B.
 606, 1932, 32p.
 iClaassen, J. Ec. Ent. 26: 282-284, 1933.
 Cutright, Ohio Wkly. PB 15(50), 1931.
 Davenport, Better Fruit 25(3): 6, 1930.
 Davenport, Mass. Fr. Grow. Assoc. R.
 40: 78-80, 1934.
 Dietz, N.Y. St. Inst. Appl'd Agr. L.I.
 1929: 14-16.
 Garman, Mass. Fr. Grow. Assoc. R. 38:
 128-132, 1932.
 iGarman, J. Ec. Ent. 27: 361-364, 1934.
 Garman, Conn. Pom. Soc. P. 44: 82-88,
 1934.
 iGodbout, Que. Min. de l'Agr. B. 124:
 16-21, 1933.
 Goucher, N.S. Dept. Agr. R. f. 1931:
 123-124, 1932; R. f. 1932: 132-133,
 1933.
 Grünberg, Rev. Unidas 46(6): 47-48,
 1930.
 H.B.T., Rur. N.Y. 92: 280, 1933.
 Hall, Ent. Soc. Ont. R. 64: 21-31, 1933.
 iHarman, J. Ec. Ent. 24: 180, 1931.
 Headlee, N.J. Dept. Ent. R. f. 1930:
 144-148, 1931.

- Hodgkiss, Penn. St. Hort. Assoc. P. 74: 36-39, 1933.
- iHodson, Minn. Hort. 62: 133, 1934.
- Jensen, Wash. St. Hort. Soc. P. 28: 24-27, 1932.
- Lowry, N.H. Hort. Soc. R. 19: 14-17, 1930.
- Maheux, Que. Pom. & Fr. Grow. Soc. R. 37: 44-51, 1930.
- Maltais, Que. Pom. & Fr. Grow. Soc. R. 40: 97-102, 1933.
- bMarcovitch, J. Ec. Ent. 27: 779-784, 1934.
- Marlatt, USDA Ent. R. f. 1932: 2-3; R. f. 1933: 3-5.
- Parsons, Ida. Dept. Agr. Bien. R. 6: 48-49, 1930.
- Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 47, 1930.
- Pettit & Hutson, Mich. C. B. 137, 1931, 63p.
- Quaintance & Siegler, USDA FB 1270 rev. 1931, 106p.
- Richardson, Iowa R. f. 1934: 94-95.
- iRoss, Can. Dept. Agr. B. 129: 38-52, 1930.
- Ruggles, Minn. Hort. 61: 117, 1933.
- Russell, Ida. Dept. Agr. Bien. R. 6: 56, 1930.
- Strong, USDA Ent. R. f. 1934: 16.
- biWhitcomb, Mass. B. 250, 1932, 16p.
- biWhitcomb, J. Ec. Ent. 27: 355-361, '34.
- Apple insects—Losses from**
Quaintance & Siegler, USDA FB 1270 rev.: 1, 1931.
- Apple insects—Traps—Light—Electric**
Lathrop & Dirks, Maine B. 377: 380-381, 1934.
- Apple leaf-curling midge, see Dasyneura mali**
- *Apple leafhopper, see Empoasca maligna Walsh**
- Apple leaf sewer, see Ancyliis nubeculana**
- *Apple leaf skeletonizer, see Psorosina hammondi Riley**
- *Apple leaf trumpet miner, see Tischeria malifoliella Clem.**
- *Apple maggot, see Rhagoletis pomonella Walsh.**
- *Apple redbug, see Lygidea mendax Reut.**
- *Apple seed chalcid, see Callimome druparum Boh.**
- Apple skin miner, see Marmara pomonella**
- Apple spinx, see Sphinx gordius**
- *Apple sucker, see Psyllia mali Schmidt**
- Apple tent caterpillar, see Malacosoma americana**
- Apple tree borer, see Chrysobothris femorata and Saperda candida**
- *Apple twig borer, see Schistoceros hamatus F.**
- Apriona rugicollis**
bClausen, USDA C. 168: 24, 1931.
- Apristus sericeus**
nDarlington, Psyche 41: 116, 1934.
- Approaerema nigrella**
Clarke, Can. Ent. 66: 174, 1934.
- Apronius flavidus, rapax**
nBarber, Ent. Amer. n.s. 10: 211-213, 1930.
- Aprostocetus sp.**
Smith, Cal. B. 505: 13, 1931.
- Apsena spp.**
Blaisdell, Trans. Amer. Ent. Soc. 58: 49-90, 1932.
Blaisdell, Pan-Pac. Ent. 10: 110, 1934.
- Apyrothrix mulleri**
inBell, Bklyn. Ent. Soc. B. 29: 90, 1934.
- Aquatic Coleoptera**
Gamble, Ecol. Soc. Amer. B. 11(4): 19, 1930.
iGamble, Penn. Acad. Sci. 5: 97-100, '31.
Gamble, Ent. News 43: 122-124, 1932.
- Aquatic Diptera**
biJohannsen, N.Y. (C.) Mem. 164, 1934, 71p.
Walden, Conn. B. 315: 587-588, 1930.
- Aquatic Hemiptera**
iHungerford, Bklyn. Ent. Soc. B. 29: 68-73, 1934.
- Aquatic insects**
biAncona, Mex. Univ. Nac. Inst. Biol. Anal. 4: 51-69, 1933.
Chagnon, Can. Ent. 64: 112, 1932.
- biFolsom, Entomology 4th ed. rev.: 197-206, c1934.**
Frison, Ill. Dept. Reg. & Ed. R. 14: 28-29, 1931.
- iFrost, Nature Mag. 20: 267-269, 1932.**
Hiestand, Physiol. Zool. 4: 246-270, 1931.
- bLudwig, Ohio Biol. Surv. B. 36: 228-249, 1932.**
Lutz, Nat. Hist. 30: 389-401, 1930.

Aquatic insects *Cont'd*

Marshall, Wis. Acad. Sci. Trans. 25:
245-249, 1930.

biMorgan, Field Book of Ponds and
Streams: 179-300, 1930.

Needham, Guide to Fresh-water Bi-
ology ed. 2, 1931, 88p.

Oder, Univ. Col. Studies 20: 71, 1932.

Williams, Hawaiian Acad. Sci. P. 7:
14, 1932.

Aquatic insects—Locomotion

biDuncan, Cal. St. Teach. Coll. Insects:
104-107, 1933.

Aquatic insects—Respiration

biDuncan, Cal. St. Teach. Coll. Insects:
91-94, 1933.

Aquatic insects and Platyhelminia

Stafford, J. Parasit. 18: 131, 1931.

Aquatic plants and mosquito control

biMatheson, Amer. Nat. 64: 56-86, 1930.

Arachnida

bBarrett, Cal. Univ. Pub. Ent. 5(5):
275-309, 1932.

Metcalf & Flint, Fund. of Ins. Life:
177-181, 1932.

biRiley & Johannsen, Med. Ent.: 16-66,
1932.

Tanner, Utah Acad. Sci. P. 11: 221-
222, 1934.

Worley, Univ. Wash. Pub. Biol. 1(1):
1-63, 1933.

Arachnida and human disease

biMatheson, Med. Ent.: 19-28, 1932.

Arachnitus filicrus

inHebard, Trans. Amer. Ent. Soc. 58:
301-302, 1932.

Arachnoleter swezeyi—Parasites

Swezey, Hawaiian Ent. Soc. P. 7: 343,
1931.

Arachnophaga albolinea

nGahan, Habana Univ. Mem. Soc.
Poe 8: 125-127, 1934.

Araecerus fasciculatus (Deg.) (Coffee-bean weevil)*

iBack & Cotton, USDA FB 1260 rev.:
6-7, 1930.

Araecerus elegans

nFall, Can. Ent. 64: 57-58, 1932.

Araneae

bChickering, Mich. Acad. Sci. Pap. 13:
249-252, 1931; 15: 349-355, 1932;
17: 515-528, 1933.

bElliott, Ind. Acad. Sci. P. 41: 419-430,
1932.

Araneida

iBryant, B. Mus. Comp. Zool. 74(6):
171-193, 1933.

iGiovannoli, Bailey, Cave Life of Ky.:
220, 1933.

biHilton, J. Ent. & Zool. 26: 7-12, 1934.

Araneus nauticus

Hawaiian Ent. Soc. P. 7: 336, 1931.

Arborvitae leaf miner, see *Argyresthia thuiella* Pack.*Arcadopsycha prominens**

nBanks, Bklyn. Ent. Soc. B. 25: 129, '30.

Archanaarta acraea

nBenjamin, Pan-Pac. Ent. 10: 86-87, '34.

Archanaarta bryanti

nBenjamin, Pan-Pac. Ent. 9: 54-55, '33.

Archasia—Key

Ball, Ent. Amer. n.s. 12: 65-67, 1931.

Archilestes

iGarman, Ent. News 43: 85-92, 1932.

Archilestes grandis

Cotterman, Ent. News 42: 63-64, 1931.

Williamson, Ent. News 42: 63-64, '31.

Williamson, Mich. Univ. Occ. Pap. 240:
20, 1932.

Archips, see *Cacoecia***Archytas californiae**

bPlanckard & Conger, J. Ec. Ent. 25:
1065-1067, 1932.

Archytas cirphis

Swezey, Hawaiian Ent. Soc. P. 7: 340,
1931.

biWilliams, Handbk. Insects . . . Hawai-
ian Sugar Cane Fields: 292-294, '31.

Archytas piliventris

iBruner, Rev. de Agr. Cuba 14(22): 96,
1934.

Arctiidae

Huard, Nat. Can. 57: 16-20, 38-44, '30.

McDaniels, Mich. Sp. B. 243: 38-40,
1933.

Arctocorixa spp.

nFattig, Ent. News, 44: 152, 1933.

inHungerford, Pan-Pac. Ent. 7: 25-26,
1930.

inReinhard, Bklyn. Ent. Soc. B. 25: 203-
206, 1930.

nWalley, Can. Ent. 62: 280-287, 1930;
63: 238-239, 1931.

- Arcyothrips*, *A. africanus*
 in Hood, P. Ent. Soc. Wash. 36: 114-117, 1934.
- Ardistomus nitidipennis*
 nDarlington, Psyche 41: 70-71, 1934.
- Arenetra* spp.
 nWalley, Can. Ent. 63: 168-171, 1931.
- Arenophilus bipuncticeps*
 Holloway, Facts about Sugar 27: 66, 1932.
 Ingram, Sugar B. 12(12): 5, 1934.
- Areolaria uniformis*
 nHebard, P. Acad. Nat. Sci. Phila. 81: 101-102, 1929.
- Arexion*, *A. suavis*
 in Rehn, P. Acad. Nat. Sci. Phila. 81: 508-512, 1929.
- Argas miniatus* Koch (Fowl tick)*
 iBishopp, Smithson. R. f. 1933: 398.
 Buckley, USDA FB 1652: 60, 1931.
 Buckley & Bunyea, USDA FB 1652 rev.: 65-66, 1933.
 bDavis, Amer. J. Trop. Med. 13: 547-554, 1933.
 Etchegoyhen, Rev. Unidas 48(8): 25-27, 1932.
 Herms, Pac. Rur. Press 127: 101, '34.
 iHoffman, Anal. Univ. Nac. Mex. Inst. de Biol. 1: 141-148, 1930.
 iLamon & Kinghorne, Pract. Poult. Prod. rev.: 333-334, 1930.
 bMatheson, Med. Ent. 35: 51-52, 1932.
 iMohler, USDA FB 1625: 11, 1930.
 iSanderson, Ins. Pests Farm ed. 3: 528-529, 1931.
 iAmer. Poult. J. 63(5): 2-3, 1932.
- Argas persicus*, *see* *Argas miniatus*
- Arge mali*
 bClausen, USDA C. 168: 23-24, 1931.
- **Argentine ant*, *see* *Iridomyrmex humilis* Mayr
- Argonot petraeus*, *see* *Athena peleus*
- Argopistes rubicundus*
 in Blake, Bklyn. Ent. Soc. B. 29: 53, '34.
- Argynnis* spp.
 Bell et al., Ent. News 45: 160, 1934.
 iComstock & Dammers, So. Cal. Acad. Sci. B. 30: 40-44, 1931.
 Cottle, Pan-Pac. Ent. 8: 1-4, 1931.
 Cottle, Pan-Pac. Ent. 9: 73-74, 1933.
 nGunder, So. Cal. Acad. Sci. B. 30: 46, 1931.
- nGunder, Can. Ent. 64: 278-283, 1932;
 65: 171-173, 1933; 66: 126-127, 1934.
- nHolland, Carnegie Mus. Ann. 20: 255-256, 1931.
- Knobel, Bklyn. Ent. Soc. B. 26: 184, 1931.
- McDunnough, Can. Ent. 64: 267-268, 1932.
- iSaunders, N.Y. St. Mus. Hdbk. 13: 135-163, 1932.
- Sternitzky, Pan-Pac. Ent. 8: 170-178, 187, 1932.
- Argyra (Leucostola) basalis*
 nVan Duzee, Ent. News 43: 186-187, 1932.
- Argyra berbipes*
 nVan Duzee, Amer. Mus. Nov. 655: 20, 1933.
- Argyra fasciventris*
 nVan Duzee, Amer. Mus. Nov. 439: 2-3, 1930.
- Argyra javanensis*
 nVan Duzee, Pan-Pac. Ent. 8: 17-18, 1931.
- Argyra splendens*
 Van Duzee, Ent. News 44: 151, 1933.
- Argyresthia conjugella* Zell. (Apple fruit moth)*
 bClausen, USDA C. 168: 13-14, 1931.
- Argyresthia cupressella*
 Burke, Cal. Agr. Mo. B. 21: 359-360, 1932.
- Argyresthia freyella*
 biBritton, Conn. B. 349: 437-438, 1933.
- Argyresthia* spp.
 Keifer, Pan-Pac. Ent. 7: 76, 1930.
- Argyresthia thuiella* (Pack.) (Arborvitae leaf miner)*
 iPeirson, Field Book of Destruct. For. Ins. ed. 2: 19, 1932.
- biSoraci, N.J. Dept. Agr. C. 243: 28-29, 1934.
- Argyrophylacoides*
 nTownsend, J. N.Y. Ent. Soc. 40: 477, 1932.
- Argyroplote hebesana*, *see* *Endothenia hebesana*
- Argyroplote abietana*, *see* *Taniva albolineana*
- Argyroplote illepidia*
 Ehrhorn, Hawaiian Ent. Soc. P. 8: 387, 1934.

***Argyroploce illepidata* Cont'd**

Fullaway, Hawaiian For. & Agr. 27:
126-127, 1930.

Fullaway, Hawaiian Ent. Soc. P. 7:
384, 1931.

Swezey, Hawaiian Ent. Soc. P. 8: 274,
1933.

Argyroploce trinitana

in McDunnough, Can. Ent. 63: 151-152,
1931.

Argyrotaenia citrana* (Fern.) (Orange tortrix)

biLockwood, Cal. Agr. Mo. B. 22: 342,
1933.

biQuayle, Cal. B. 542: 61-62, 1932.

Watson & Berger, Fla. Ext. B. 67: 107,
1932.

Woglum, Cal. Fr. Grow. Exch. B. 7:
32-33, 1930; B. 11: 23-25, 1934.

***Argyrotaenia citrana*—Parasites**

Hutchison, Cal. R. f. 1929-1930: 37,
1931.

Argyrotaenia mariana* (Gray-banded leaf roller)

Kelsall, N.S. Fr. Grow. Assoc. R. 66:
59-60, 1930.

Kelsall & Patterson, Ent. Soc. Ont. R.
61: 84-85, 1931.

Kelsall, Pickett & Patterson, N.S. Fr.
Grow. Assoc. R. 70: 55-61, 1933.

Pickett, N.S. Fr. Grow. Assoc. R.
68/69: 20, 1931; R. 70: 53, 1933; R.
71: 39, 1934.

Twinn, Ent. Soc. Ont. R. 64: 70, 1933;
R. 65: 119, 1934.

Argyrotaenia pinatubana* (Pine tube moth)

biBurke, USDA C 224: 3-11, 1932.

Argyrotaenia velutinana* (Red-banded leaf roller)

Drinkard, Va. Poly. R. f. 1927-1931:
34-35.

Gibson, Can. Dept. Agr. B. n.s. 99 rev.:
20, 1934.

Hall, Ent. Soc. Ont. R. 61: 40-41, 1931.

Hedrick, N.Y. (Gen.) R. 50: 50-51, '31.

iQuaintance & Siegler, USDA FB 1270
rev.: 23-24, 1931.

biRose et al., USDA Misc. Pub. 168: 35,
1933.

iSanderson, Ins. Pests Farm, ed. 3: 356-
359, 1931.

Argyrotoxa semipurpurana

Felt & Bromley, Nat. Shade Tree Conf.
P. 6: 17, 1930.

Macdonald, N.Y. Conserv. Dept. R.
20: 188, 1930.

Argyrtes, macropus

Hebard, Trans. Amer. Ent. Soc. 58:
345-348, 1932.

Arhaphes terminatus

nFleutiaux, Hawaiian Ent. Soc. P. 8:
476, 1934.

Arhipis striata

nFleutiaux, Hawaiian Ent. Soc. P. 8:
46, 1932.

Aridalia

nCurran, Fam. & Genera of North Amer.
Diptera: 469-470, 1934.

Arilus cristatus* (L.) (Wheel bug)

Burkett, Tex. Dept. Agr. B. 111: 212,
1932.

bEasterling, Ohio J. Sci. 34: 136, 1934.
White & Brannon, USDA FB 1712: 5,
1933.

***Aristotelia*—Key**

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R.
12: 116, 1930; 12(1 sup.): 365, 1931.

Forbes, P.R. Dept. Agr. J. 15: 365, '31.

Aristotelia adenostomae

in Keifer, Cal. Agr. Mo. B. 22: 353-354,
1933.

Aristotelia diolcella

in Forbes, N.Y. Acad. Sci. Sci. Surv. P.R.
12(1 sup.): 366-367, 1931.

in Forbes, P.R. Dept. Agr. J. 15: 366-367,
1931.

Aristotelia eupatoriella

in Busck, Ent. Amer. n.s. 13: 159-160,
1933.

Aristotelia fragariae

iDownes, Can. Dept. Agr. Pam. n.s. 5,
ed. 2: 15-17, 1931.

Jones & Hanson, Wash. Ext. B. 180:
10, 1933.

Aristotelia fungivorella, intermediella

iForbes, J. N.Y. Ent. Soc. 40: 430-431,
1932.

Aristotelia lespedezae

nBraun, Amer. Ent. Soc. Trans. 56: 2-3,
1930.

Aristotelia lignicolora

in Forbes, N.Y. Acad. Sci. Sci. Surv. P.R.
12(1 sup.): 368, 1931.

in Forbes, P.R. Dept. Agr. J. 15: 368, '31.

- Aristotelia nigrobasiella**
in Clarke, Can. Ent. 64: 63, 1932.
- Aristotelia psoraleae**
n Braun, Trans. Amer. Ent. Soc. 56: 3-5, 1930.
- Aristotelia pudibundella**
i Forbes, J. N.Y. Ent. Soc. 40: 423-432, 1932.
- Aristotelia rhamnina**
in Keifer, Cal. Agr. Mo. B. 22: 353, 1933.
- Aristotelia rhoisella**
in Busck, So. Cal. Acad. Sci. B. 33: 74-76, 1934.
- Aristotelia roseosuffusella, rubidella, salicifungella**
i Forbes, J. N.Y. Ent. Soc. 40: 430-432, 1932.
- Aristotelia urbaurea**
in Keifer, Cal. Agr. Mo. B. 22: 352-353, 1933.
- Aristotelia vagabundella**
in Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 365-366, 1931.
in Forbes, P.R. Dept. Agr. J. 15: 365-366, 1931.
- *Arizona cotton stainer, *see* **Dysdercus mimulus** Hussey
- Armadillidium vulgare**
i McDaniel, Mich. Sp. B. 214: 30-31, 1931.
Can. Hort. Fr. & Truck ed. 55: 36, '32.
- Armadilloniscus ellipticus**
bi Blake, Bost. Soc. Nat. Hist. Occ. Pap. 5: 279-284, 1930.
- Armigeres and disease**
Krijgsman, Pac. Sci. Cong. 5. P. 5: 3357-3358, 1934.
- Army ant, see** **Dorylus helvolus**
- *Army cutworm, *see* **Chorizagrotis auxiliaris** Grote
- *Armyworm, *see* **Cirphis unipuncta** Haw.
- Arocera repleta**
n Van Duzee, Pan-Pac. Ent. 8: 94, 1931.
- Arphia pseudonietana**
Buckell, B.C. Ent. Soc. P. 27: 33-34, 1930.
Hebard, Minn. TB 85: 27-28, 1932.
Hebard, Trans. Amer. Ent. Soc. 58: 244-245, 1932.
- Arphnus tripunctatus**
n Van Duzee, Cal. Acad. Sci. P. ser. 4, 21(4): 36, 1933.
- Arrhopalites diversus**
in Mills, Collembola of Iowa: 93-94, 1934.
- Arsilonce albobovena**
Cole, Ent. News 42: 9, 1931.
- Arthmius (Arthmius) morsus**
n Fletcher, Can. Ent. 64: 33-34, 1932.
- Arthrocnodax occidentalis**
bi Quayle, Cal. B. 542: 18-19, 1932.
- Arthrolytus maculipennis**
bi Gahan, USDA Misc. Pub. 174: 70-75, 1933.
- Arthroplea bipunctata**
Ide, Can. Ent. 62: 42-45, 229, 1930.
- Arthropoda—Hibernation**
i Holmquist, Ecology 12: 387-400, 1931.
- Arthropoda—Sense organs**
bi Hilton, J. Ent. & Zool. 25: 61-67, 1933.
- Arthropoda and disease**
b Hinman, Amer. J. Trop. Med. 13: 415-423, 1933.
Huff, Science 74: 456-457, 1931.
bi Matheson, Med. Ent.: 1-18, 1932.
Rawson, Sci. Month. 39: 497-510, '34.
- *Artichoke plume moth, *see* **Platyptilia carduidactyla** Riley
- Arvelius albopunctatus**
Jones & Clark, Tex. R. 47: 53, 1934.
- Arytaina assimilis**
Klyver, Ent. News 43: 70, 1932.
- Arytaina snowi**
in Dowell, J. Kans. Ent. Soc. 5: 93-94, 1932.
- Asaphes memnonius**
bi Bigham, Ohio J. Sci. 31: 386-395, 1931.
- Ascia beckerii**
Ingham, Pan-Pac. Ent. 9: 75, 1933.
- Ascia monuste crameri**
n Holland, Carnegie Mus. Ann. 20: 256-257, 1931.
- Ascia monuste raza**
in Klotz, Pan-Pac. Ent. 6: 145-147, 1930.
- Ascia protodice (Bdv. & Lec.) (Southern cabbage worm)***
Payne, Ent. News 45: 93, 1934.
i Roig & Villalba, Rev. de Agr. Cuba 15(4): 31, 1934.
i Watson, Fla. B. 232: 39-41, 1931.
- Ascia protodice vernalis**
b O'Byrne, Psyche 39: 85-86, 1932.
- Ascia rapae, see** **Pieris rapae**
- Ascogaster carpocapsae**
b Collins, J. Ec. Ent. 27: 379-382, 1934.
i Cox, N.Y. (Gen.) TB 188, 1932, 26p.

Ascogaster carpocapsae *Cont'd*

Hedrick, N.Y. (Gen.) R 51: 71, 1932.

Hensill, J. Ec. Ent. 26: 603, 1933.

Marlatt, USDA Ent. R. f. 1930: 14.

Newcomer, USDA C. 270: 65, 1933.

Ascogaster quadridentatus

Neiswander & Vogel, Ohio St. Hort.

Soc. P. 66: 157, 1933.

Ascogaster sp.—*Liberated*

Garman, Conn. Pom. Soc. P. 44: 24-26, 1934.

Aseum atrum

Spencer, B.C. Ent. Soc. P. 29: 25, 1932.

Aserica, *see* **Autoserica*****Ash borer**, *see* **Podosesia fraxini** **Lugger****Ash-winged click beetle**, *see* **Anchastus cinereipennis****Ash sawfly**, *see* **Tomostethus bardus****Ashmeadiella coloradensis**

nCockerell, Amer. Mus. Nov. 732: 4-5, 1934.

Asiatic beetle, *see* **Anomala orientalis*****Asiatic garden beetle**, *see* **Autoserica castanea** **Arrow*****Asiatic rice borer**, *see* **Chilo simplex** **Butl.****Asilidae**

Bromley, Bklyn. Ent. Soc. B. 25: 283-290, 1930.

inBromley, Ann. Ent. Soc. Amer. 24: 427-435, 1931; 27: 74-113, 1934.

Bromley, Ohio J. Sci. 33: 204, 1933; 34: 163-164, 1934.

inCurran, Amer. Mus. Nov. 425, 1930, 21p.; 426: 9-11, 1931; 487, 1931, 25p.

James, Amer. Mus. Nov. 596, 1933, 3p.

James, Pan-Pac. Ent. 10: 83-86, 1934.

iPellett, Flow. Grow. 18: 363, 1931.

iWalker, Nature Mag. 20: 136, 1932.

Asilidae and spiders

iAaron, Nature Mag. 22: 274, 1933.

Asilus piceus

Bromley, Ohio J. Sci. 34: 163, 1934.

Asiphonaphis anogis

inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 225-227, 1931.

Asiphum—*Key*

Gillette & Palmer Ann. Ent. Soc. Amer. 27: 216, 1934.

Asiphum rosettei

inMaxson, Ann. Ent. Soc. Amer. 27: 40-42, 1934.

Asopinae

Barber, P.R. Dept. Agr. J. 16: 274, '32.

Asotocerus ochraceellus

iMartynov, PUSNM 79(25): 11, 1931.

Asparagus beetle**, *see* **Crioceris asparagi** **L.*Asparagus fern insects**

Stoutamire, Fla. Dept. Agr. B. n.s. 35:

12-14, 1930.

bWymore, J. Ec. Ent. 27: 885, 1934.

Asparagus insects

iCaesar, Ont. Dept. Agr. B. 359: 19-22, 1931.

Compton, Ill. C. 391: 37-39, 1932.

Drake & Harris, Iowa C. 134, 1932, 12p.

iDustan, Can. Dept. Agr. Ent. B. 32: 31-32, 1932.

iEssig & Hoskins, Cal. Ext. C. 87: 21, 1934.

iGilbert & Popenoe, USDA FB 1371 rev.: 8, 1934.

Underwood, N.Y. (C.) Ext. B. 223: 22, 1932.

Watson, Fla. Grow. 40(4): 21, 1932.

iWilkinson, Conn. (Storrs) Ext. B. 196: 10-11, 1933.

Wilson, Sci. News Letter 19: 8, 1931.

Asparagus miner**, *see* **Agromyza simplex** **Loew*Aspergillus flavus**

Barreto, Facts about Sugar 27(3): 136, 1932.

Asphondylia ceanothi

Felt, J. Ent. & Zool. 26: 34, 1934.

Asphondylia garryae

nFelt, J. Ent. & Zool. 26: 34, 1934.

Asphondylia mimosae

nFelt, Bklyn. Ent. Soc. B. 29: 77, 1934.

Aspidiotiphagus citrinus

Dozier, P. Ent. Soc. Wash. 35: 89, '33.

Essig, Hist. of Ent.: 341, 1931.

Roaf, Mote & Wieman, Cal. Agr. Mo. B. 23: 325, 1934.

Werner, Mich. Acad. Sci. Pap. 13: 533-534, 1931.

Aspidiotiphagus lounsburyi

Dozier, P. Ent. Soc. Wash. 35: 89, '33.

Aspidiotus abietis (Black pine leaf scale)

iChambers & Thompson, Wis. Dept. Agr. B. 145: 60, 1933.

Aspidiotus ancylus (Putn.) (Putnam's scale)*

- Chambers & Thompson, Wis. Dept. Agr. B. 123: 13-14, 1931.
- iChambers & Thompson, Wis. Dept. Agr. B. 145: 20-21, 1933.
- Drake & Guthrie, Iowa Dept. Agr. YB 31: 30, 1931.
- Aspidiotus aurantii*, see *Chrysomphalus aurantii*
- Aspidiotus britannicus*
 Fleury, Cal. Agr. Mo. B. 21: 555, 1932; 23: 234-287, 1934.
 Roaf, Mote & Wieman, Cal. Agr. Mo. B. 23: 324-328, 1934.
 Better Fruit 27(1): 11, 1932.
- Aspidiotus camelliae* Sign. (Greedy scale)*
 Essig, Cal. Univ. Pub. Ent. 6: 2, 1932.
 McDaniel, Mich. Sp. B. 214: 58, 1931.
 bQuayle, Cal. B. 542: 37, 1932.
- Aspidiotus cyanophylli*
 iMcDaniel, Mich. Sp. B. 214: 58-59, 1931.
- Aspidiotus destructor*
 Ciferri, J. Dept. Agr. P.R. 14(1): 21, 1930.
 Rios & Reinart, P.R. Ins. C. 93: 30-31, 1931.
 Zetek, P. Ent. Soc. Wash. 36: 261, '34.
- Aspidiotus forbesi* Johns (Cherry scale)*
 iDrake & Guthrie, Iowa Dept. Agr. YB 31: 31, 1931.
 Hutson, Mich. Sp. B. 244: 39, 1933.
- Aspidiotus hederae* (Vallot) (Oleander scale)*
 iHamilton, N.J. R. 52: 218-220, 1931.
 McDaniel, Mich. Sp. B. 214: 59, 1931.
 bQuayle, Cal. B. 542: 39, 1932.
- Aspidiotus juglans-regiae* Comst. (Walnut scale)*
 Hutson, Mich. Sp. B. 244: 39, 1933.
- Aspidiotus lataniae*
 Hutchison, Cal. R. f. 1932-1934: 60.
 biLockwood, Cal. Agr. Mo. B. 22: 343, 1933.
 McDaniel, Mich. Sp. B. 214: 59, 1931.
 McKenzie, Cal. Avocado Assoc. YB f. 1933: 35-36.
 Mackie, Cal. Avocado Assoc. YB f. 1931: 95.
 iMackie, Cal. Agr. Mo. B. 20: 432-441, 331, 1931.
 McLean, Cal. Avocado Assoc. YB f. 1931: 74.
- iNewell et al., Fla. B. 221: 60, 1930.
- iPalmer, Cal. Cult. 77: 485-497, 1931.
- iQuayle, Cal. Avocado Assoc. YB f. 1931: 97-100; YB. f. 1932: 38-39.
 Swezey, Hawaiian Ent. Soc. P. 8: 236¹, 1933.
- Aspidiotus ostreaeformis* Curt. (European fruit scale)*
 Hutson, Mich. Sp. B. 244: 39, 1933.
- †*Aspidiotus perniciosus* Comst. (San José scale)*
 iAlden, Ga. St. Bd. Ent. B. 71: 10-13, 1930; B. 73: 8-11, 1930.
 Barlow, B.C. Dept. Agr. R. 24: 125, 1929.
 iBritton, Conn. B. 344: 143, 1933.
 iCaesar, Ont. B. 356: 21-24, 1930.
 Caesar, Ont. Min. Agr. R. f. 1932: 45, 1933.
 Caesar, Can. Hort. Fr. ed. 57: 26, 1934.
 Chambers, Wis. Hort. 22: 66, 1931; 22: 162-163, 1932.
 Chambers, Wis. Dept. Agr. B. 141: 99-100, 1933.
- iChambers & Thompson, Wis. Dept. Agr. B. 123: 15-16, 1931; B. 145: 21-22, 1933.
- Chandler, Ill. St. Hort. Soc. Trans. 64: 519-523, 1930.
- bClausen, USDA C. 168: 27, 1931.
- Cory, Md. Agr. Soc. R. 14: 206-213, 1930.
- Cory, Md. St. Hort. Soc. R. 32: 206-213, 1930; 34: 61-63, 1932.
- iCory, Md. Agr. Soc. R. 16: 212-218, 1931.
- Crosby, Rankin & Mills, N.Y. (C.) Ext. B. 306: 17, 1934.
- iDarrow & Detwiler, USDA FB 1398 rev.: 11-15, 1933.
- iDavis & Gardner, Ind. Ext. B. 176: 2-3, 1931.
- Doane, Common Pests: 158-160, 1931.
- Drake, Iowa Dept. Agr. YB 33: 49-50, 1933.
- iDrake & Guthrie, Iowa Dept. Agr. YB 31: 29-30, 1931.
- Eddy, Ky. St. Hort. Soc. Trans. 77: 81-82, 1932.
- Eddy et al., Ky. B. 353: 226, 1934.
- Essig, Hist. of Ent.: 150-156, 1931.
- Fite, N.Mex. B. 209: 38-39, 1933.

†*Aspidiotus perniciosus* Comst. *Cont'd*

- Flint, Ill. St. Hort. Soc. Trans. 64: 261, 1930.
 Flint & Chandler, Ill. Hort. Soc. Trans. 65: 451-454, 1932.
 Garcia, N.Mex. R. 43: 45, 1932.
 Glenn, Kans. St. Hort. Soc. Bien. R. 41: 27, 1932.
 Hartzell, Md. St. Hort. Soc. P. 36: 16, 1934.
 Hodgkiss, Penn. St. Hort. Assoc. P. 73: 27-28, 1932.
 Howard, Hist. of Appl'd Ent.: 119-124, 1930.
 iHutson, Mich. Sp. B. 244: 39-40, 1933.
 Iddings, Ida. B. 197: 40, 1933.
 Liston, Kans. Ent. Com. Bien. R. 13: 5-8, 1932.
 Marlatt, USDA Ent. R. f. 1930: 8.
 Meacham, Ida. St. Hort. Soc. Conv. 38: 95-96, 1933.
 biMex. Agr. & Fomento. Principales Plagas: 90-91, 1930.
 Michaels, Mich. St. Hort. Soc. R. 60: 96-97, 1931.
 Millar, Ark. St. Pl. Bd. Pam. 1930: 6-7.
 Mumford, Ill. R. 46: 151-152, 1933.
 iNewcomer, USDA C. 270: 8-11, 49, 62, 1933.
 biO'Kane & Conklin, N.H. TB 40, 1930. 15p.
 iPettit Mich. Quar. B. 14: 186-187, '32.
 Pettit & Hutson, Mich. C. B. 137: 60-61, 1931.
 Potter et al., N.H. Ext. B. 47: 41, 1934.
 Quaintance, La Hacienda 27: 278, 1932.
 iQuaintance & Siegler, USDA FB 1270 rev.: 70-73, 1931; FB 1666: 63, 1931; FB 1398 rev.: 11-15, 1934.
 Regan, Wash. St. Hort. Assoc. P. 25: 131, 1929.
 biRose et al., USDA Misc. Pub. 168: 40-41, 1933.
 iRoss, Can. Dept. Agr. B. 129: 46-47, 1930.
 Ross, Can. Hort. Fr. & Truck ed. 55: 24, 1932.
 Ross et al., Ent. Soc. Ont. R. 62: 55, 1932; R. 63: 23-24, 1932; R. 64: 39, 1933.
 iSanderson, Ins. Pests Farm ed. 3: 295-299, 1931.
 Snapp, Tenn. St. Hort. Soc. R. 27: 20-21, 1931.
 iSnapp, USDA FB 1557 rev.: 17-23, '31.
 Snapp & Thomson, J. Ec. Ent. 24: 328, 1931.
 biSoraci, N.J. Dept. Agr. C. 243: 18-19, 1934.
 Stanley et al., J. Ec. Ent. 27: 785-788, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 62, 1933; R. 65: 120, 1934.
 Van Alstyne, N.Y. (Gen.) C. 134: 9, 1932.
 Wakeland, Ida. St. Hort. Assoc. P. 36: 159, 1931; 37: 43-54, 1932.
 biWebster, J. Ec. Ent. 26: 1016-1017, 1933.
 Wicks, Ida. St. Hort. Soc. P. 37: 18-21, 1932; 38: 104-105, 1933.
 iWoodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 222-224, 1930.
 Worthley, Peninsula Hort. Soc. Trans. 46: 102-106, 1932.
 Yapp, Kans. Ent. Com. Bien. R. 13: 10-21, 1932.
- Aspidiotus perniciosus*—Community action**
 Wicks, Northw. Fr. Grow. 4(2): 7, 14, 1932.
- Aspidiotus perniciosus*—Dormant spray**
 iDeaver, Northw. Fr. Grow. 3(2): 7, 20, 1931.
 Hutson, Mich. St. Hort. Soc. R. 62: 14, 1933.
- Aspidiotus perniciosus*—Oil**
 Mumford, Ill. R. 45: 133, 1932.
 Snapp, Tenn. St. Hort. Soc. R. 27: 21-22, 1931.
 Snapp & Thomson, J. Ec. Ent. 26: 511-512, 1933.
 Yapp, Kans. Ent. Comm. Bien. R. 14: 8-13, 1934.
- Aspidiotus perniciosus*—Oil emulsion**
 Iddings, Ida. B. 205: 45, 1934.
 Newcomer & Yothers, USDA C. 175, 1931, 12p.
 iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 3 (2), 1932, 4p.
 biPorter & Szama, J. Agr. Res. 40: 755-766, 1930.
 Swingle, USDA TB 253, 1931, 48p.

Aspidiotus perniciosus—Sprays & Spraying

- Hartzell, Farm. Res. 1(3): 5, 9, 1934.
 Hartzell, Md. Agr. Soc. R. 18: 110, '34.
 Hough, Va. Fr. 19(3): 3, 1931.
 Parrott, N.Y. St. Hort. Soc. P. 77: 25-27, 1932.
 iSwingle, USDA TB 253, 1931, 48p.
 Worthley, Penn. St. Hort. Assoc. P. 73: 22-26, 1932.

Aspidiotus perniciosus—Tar

- Hartzell, Conn. Pom. Soc. P. 44: 94-106, 1934.
 Hartzell & Parrott, N.Y. (Gen.) B. 636: 21, 1933.
 bHough, J. Ec. Ent. 25: 613-617, 1932.
 Hough, J. Ec. Ent. 26: 470-473, 1933.
 Hurt, Va. Fr. 20(8): 4, 6, 1932.

Aspidiotus perniciosus and fungus

- Alden, Ga. St. Bd. Ent. B. 71: 19, 1930.

Aspidiotus perniciosus and temperature

- Crosby, N.Y. St. Hort. Soc. P. 77: 9-10, 1932.

- Snapp, J. Ec. Ent. 26: 732-733, 1933.

Aspidiotus pinifoliae see Chionaspis pinifoliae**Aspidiotus sacchari see Targionia sacchari****Aspidiotus tsugae**

- Felt, J. Ec. Ent. 26: 424, 1933.

Assassin bugs, see Reduviidae**Asteia atriceps, 115-116, tarsalis 116**

- nMalloch, Bernice P. Bishop Mus. B. 98: 1932.

Astelidae

- Curran, Amer. Mus. Nov. 456: 12-13, 1931.

- Malloch, Bernice P. Bishop Mus. B. 98: 115-116, 1932.

Astenus fletcheri

- Fletcher, Can. Ent. 62: 190, 1930.

Aster insects

- Beal, N.Y. (C.) Ext. B. 212: 28-31, '32.
 iHansen, Nature Mag. 16: 302-303, '30.
 Honywell, Ind. C. 200, 19-20, 1933.
 biLoben Sels, J. N.Y. Ent. Soc. 42: 319-327, 1934.
 Post, Amer. Soc. Hort. Sci. P. 28: 396-397, 1932.

Asterochiton variabilis

- Bruner, Cuba, Santiago de las Vegas. C. 75: 10-11, 1931.

Asterolecanium pustulans

- Horn, Virgin Isls. R. f. 1930: 10, 1931.

Asterolecanium variolosum (Golden oak scale)

- Friend, Conn. B. 315: 617, 1930.

- iMcDaniel, Mich. C. B. 133: 15-16, '30.

Astylopsis macula

- Knull, Ent. News 45: 211, 1934.

Asynapta citrinae

- nFelt, P.R. Dept. Agr. J. 16: 117-118, 1932.

Asyndetus currani

- nVan Duzee, BAMNH 61: 172, 1931.

Asyndetus flavipalpus, parvicornis

- inVan Duzee, Amer. Mus. Nov. 569: 10-12, 1932.

Asynonychus godmani, see Pantomorus godmani**Ataenius abditus exiguus**

- nBrown, Can. Ent. 64: 10, 1932.

Ataenius anticus, 105-106, brevis 98-99

- nFall, J. N.Y. Ent. Soc. 38: 1930.

Ataenius cognatus

- Alicata & Jones, J. Parasit. 19: 244, '33.

Ataenius consors, see Ataenius falli**Ataenius erratus**

- nFall, J. N.Y. Ent. Soc. 38: 96-97, 1930.

Ataenius falli

- nFall, J. N.Y. Ent. Soc. 38: 104-105, '30.

- Hinton, Can. Ent. 66: 119, 1934.

Ataenius floridanus

- Brown, Can. Ent. 62: 3-4, 1930.

Ataenius hintoni

- nSaylor, Can. Ent. 65: 159, 1933.

Ataenius ludovicianus

- nFall, J. N.Y. Ent. Soc. 38: 100, 1930.

Ataenius miamii

- nCartwright, Can. Ent. 66: 200-201, '34.

Ataenius oklahomensis

- nBrown, Can. Ent. 62: 4, 1930.

Ataenius rudellus, saluator, strigatus

- nFall, J. N.Y. Ent. Soc. 38: 93-108, '30.

Atanycolus anocomidis

- nCushman, PUSNM 79(14): 14-15, '32.

Atanycolus rugosiventris

- biSnodgrass, Smithsonian. Misc. Coll. 89(8): 110-112, 1933.

Atarba spp.

- nAlexander, Ann. Ent. Soc. Amer. 23: 736-738, 1930; 27: 66-67, 1934.

- inAlexander, Amer. Mus. Nov. 491: 14-15, 1931.

- Atarba* spp. *Cont'd*
 nAlexander, J. N.Y. Ent. Soc. 39: 114-115, 1931.
- Ataxia crypta*
 Taubenhaus & Christenson, Assoc. South. Agr. Workers P. 35: 344-345, 1934.
- Ataxia haitiensis*
 nFisher, PUSNM 80(22): 73-75, 1932.
- Atelustus basalis*
 Blackwelder, Pan-Pac. Ent. 8: 130-132, 1932.
- Ateloggosa trivittata*
 nCurran, BAMNH 61: 92, 1931.
- Atelopius hesperus, splendidus*
 nHebard, Trans. Amer. Ent. Soc. 60: 40-45, 1934.
- Ateuchus sacer*
 iSwift, So. Cal. Acad. Sci. B. 30: 1-14, 1931.
- Atheas nigricornis*
 nTorre-Bueno, Bklyn. Ent. Soc. B. 29: 185, 1934.
- Athela* spp.
 nCameron, Conn. Acad. Arts & Sci. Mem. 10: 19-21, 1934.
- Athena peleus (Timetes petreus)*
 Miller, Fla. Ent. 15: 34-36, 1931.
 Robertson & Miller, Fla. Ent. 18: 29-30, 1934.
- Atherigona nigripes*
 Pierce, Facts about Sugar, 27: 540, '32.
- Atherogona ustipennis*
 nMalloch, Bernice P. Bishop Mus. B. 98: 201-202, 1932.
- Athesapeuta cyperi* Marsh.
 biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 312, 1931.
- Atheta virginica*—Mushrooms
 Davis, P. Ent. Soc. Wash. 36: 269, '34.
- Athous* spp.
 Knull, Ent. News 45: 10-11, 208, 1934.
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 360-389, 1932.
- Athyrciopsis*
 nTownsend, J. N.Y. Ent. Soc. 40: 468-469, 1932.
- Athymanella* spp.
 in Osborn, Ann. Ent. Soc. Amer. 23: 687-720, 1930.
- Athymanus digressus*
 nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 32, 1933.
- Atimia, A. helenae, mexicana*
 nLinsley, Pan-Pac. Ent. 10: 23-26, 1934.
- Atissa antennalis*
 nAldrich, Hawaiian Ent. Soc. P. 7: 395, 1931.
- Atizies taxcoensis*
 binAncona, Mex. Univ. Nac. Inst. Biol. Anal. 3: 149-162, 1932.
- Atlides halesus*
 nGunder, Can. Ent. 66: 131, 1934.
 Macy, Can. Ent. 64: 144, 1932.
- Atomosia* spp.
 Bromley, Ohio J. Sci. 34: 163, 1934.
 nCurran, Amer. Mus. Nov. 425: 17-20, 1930.
- Atomus* sp.
 Baker, USDA C. 295: 9, 1933.
 bJacot, P. Ent. Soc. Wash. 35: 206-208, 1933.
- Atractides jordanensis*
 inMarshall, Wis. Acad. Sci. Trans. 25: 248-249, 1930; 27: 341, 1932.
- Atractides occidentalis, simulans*
 inMarshall, Amer. Micros. Soc. Trans. 52: 40, 1933.
- Atractomorpha ambigua*
 Pemberton, Hawaiian Ent. Soc. P. 8: 370, 511, 1934.
 Swezey, Hawaiian Ent. Soc. P. 7: 332, 1931.
- Atractotomus* spp.
 nKnight, Bklyn. Ent. Soc. B. 26: 36-38, 1931.
- Atrichops bezzi*
 nCurran, BAMNH 58: 172, 1929.
- Atropidae*—British Columbia
 Graham, B.C. Ent. Soc. P. 29: 21-22, 1932.
- Atropos* sp. (Book lice)
 Marcovitch, Tenn. B. 147: 15, 1933.
 iParks & Jones, Ohio Ext. B. 97 rev.: 29, 1933.
- Atrytone barbara*
 inWilliams & Bell, Trans. Amer. Ent. Soc. 57: 271-273, 1931.
- Atrytone bimacula*
 Clark, P. Ent. Soc. Wash. 36: 263, '34.
 Leussler, Ent. News 44: 71, 1933.

Atrytonopsis hianna

Clark, P. Ent. Soc. Wash. 32: 82, 1930.

Atta insularis

Agete, Rev. de Agr. Cuba 14(17): 33-34, 1933.

iArango, Rev. de Agr. Cuba 13(1): 9-12, 1931.

Bruner & Arango, Rev. de Agr. Cuba 14(2): 73-77, 1932.

biWolcott, Ec. Ent. of West Indies: 467-474, 1933.

Atta sexdens

Greene, Cal. Agr. Mo. B. 21: 258-259, 1932.

Wolcott, Can. Field-Nat. 46: 175, 1932.

Atta spp.

bBates, Fla. Ent. 17: 47, 1933.

Bertoni, Rev. Unidas 49(4): 47-48, '33.

Elling, Country Home 58(4): 23, 53-54, 1934.

Atta texana

iMole, Guide to Nat. 24(1): 8, 1931.

Atta (Moellerius) versicolor (Leafcutting ants)

iGuenther, tr. by Miall, Naturalist in Brazil: 303-312, 1931.

Attagenus piceus (Oliv.) (Black carpet beetle)*

iBack & Cotton, USDA FB 1260 rev.: 38, 1930.

Beard, Amer. Boys' Bk. Bugs: 229-231, 1932.

Gray, Ent. Soc. Ont. R. 65: 67, 1934.

biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 42-44, 1931.

Herrick & Griswold, J. Ec. Ent. 26: 446-451, 1933.

Liggett, Amer. Med. Assoc. J. 96: 1571-1572, 1931.

iParks & Jones, Ohio Ext. B. 97 rev.: 13-14, 1933.

iRessler, Nat. & Amer. Miller 62(3): 44, 1934.

Twinn, Ent. Soc. Ont. R. 64: 79, 1933; R. 65: 128, 1934.

Twinn, Que. Soc. Prot. Pl. R. 25/26: 53-56, 1934.

iWhite, Amer. Dycstuff Report. 21: 683-684, 715, 1932.

Attelabus spp.

Fall, Bklyn. Ent. Soc. B. 26: 107-110, 1931.

Atteva aurea—Oldest moth?

iForbes, Amer. Nat. 65: 479-480, 1931.

Atticonviva, A. eidmannella

inBusck, P. Ent. Soc. Wash. 36: 243-252, 1934.

Attidae

Newport, Univ. Okla. Biol. Surv. Pub. 4: 44-45, 1932.

Attrahents, see Traps for insects—Baits**Atypa gibba**

Ball, Ent. Amer. n.s. 12: 68-69, 1931.

Auchicybaeus, A. ovalis

inGertsch, Amer. Mus. Nov. 637: 11-12, 1933.

Auchmeromyia luteola

Cecil, Text-book of Med. ed. 3: 510, 1934.

iRiley & Johannsen, Med. Ent.: 383-384, 1932.

Auchmobius spp.

inBlaisdell, Trans. Amer. Ent. Soc. 60: 223-264, 1934.

Augiades gloriosa

inBell, J. N.Y. Ent. Soc. 38: 155-156, '30.

Augiades pohli

inBell, Bklyn. Ent. Soc. B. 27: 136-138, 1932.

Augochlora coloradensis

Hicks, Can. Ent. 63: 176-177, 1931.

Augocoris illustris

Barber & Bruner, P.R. Dept. Agr. J. 16: 244-246, 1932.

Aulacapis pentagona (Targ.) (White peach scale)*

iSnapp, USDA FB 1557 rev.: 32-33, '31.

Wolcott, J. Ec. Ent. 24: 136-141, 1931.

Aulacaspis rosae (Bouché) (Rose scale)*

Chambers & Thompson, Wis. Dept. Agr. B. 145: 69, 1933.

iCook & Walker, Va. Truck B. 79: 1061, 1932.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 151, 1930.

iDrake & Guthrie, Iowa Dept. Agr. YB 31: 31, 1931.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 42, 1934.

Houser, Ohio B. 454: 76-77, 1930.

McDaniel, Mich. Sp. B. 214: 61, 1931.

biSoraci, N.J. Dept. Agr. C. 243: 25-26, 1934.

Aulacidea podagrae

Shaw, J. N.Y. Ent. Soc. 38: 465-466, 1930.

Aulacizes irrorata

Folsom, USDA FB 1688: 24-25, 1932.

Aulacoscelis ventralis

nSchaeffer, J. N.Y. Ent. Soc. 41: 297-298, 1933.

Auletes mariposae

nZimmerman, Pan-Pac. Ent. 8: 181-182, 1932.

Aulicus terrestris

Linsley, Pan-Pac. Ent. 9: 95, 1933.

Aulocara ellioti

iHenderson, Utah C. 96: 23-24, 1931.

Knowlton & Jones, Utah Acad. Sci. P. 9: 107, 1932.

Australasia ladybird beetle, see *Orcus australasiae***Australian blowfly maggots, see *Lucilia* spp.****Australian cattle tick, see *Boophilus annulatus australis*****Australian cockroach-eating moth, see *Eulemma cocciphaga******Australian cockroach, see *Periplaneta australasiae* F.****Australian ladybeetle, see *Rodolia cardinalis*****Australian tomato weevil, see *Listroderes obliquus*****Austroleon garciana**

nBanks, Psyche 37: 190-191, 1930.

Austroleon indiges

Smith, Ann. Ent. Soc. Amer. 24: 816-817, 1931.

Austrolestes annulosus

Wheeler & Dow, Psyche 40: 57-59, '33.

Austromacquartia

nTownsend, J. N.Y. Ent. Soc. 42: 248, 1934.

Austrophasiopsis, A. formosensis

nTownsend, J. N.Y. Ent. Soc. 40: 448-449, 1932.

Autochton spp.

iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 121-122, 128-129, 1934.

Autographa brassicae (Riley) (Cabbage looper)*

Britton, Conn. B. 344: 89, 1933.

iCaesar, Ont. Dept. Agr. B. 359: 34-35, 1931.

Caffrey, Md. Agr. Soc. R. 19: 273-274, 1934.

iCocks, Conn. (Storrs) Ext. B. 185: 4, 1933.

Compton, Ill. C. 391: 5, 1932.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 18-19, 1933; B. 278: 17-18, '34.

iDustan, Can. Dept. Agr. Ent. B. 32: 43-44, 1932.

iGilbert & Popenoe, USDA FB 1371 rev.: 18, 1930.

iMcDaniel, Mich. Sp. B. 214: 76-77, 1931.

Marcovitch, Tenn. R. 45: 33, 1932.

biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.

iWatson, Fla. B. 232: 37, 1931.

Watson, Fla. Ent. 15: 72, 1932.

iWisecup & Miller, Fla. Ent. 17: 61, '33. Miss. St. Pl. Bd. Quar. B. 10(3): 14, '30.

Autographa brassicae—Cryolite and talc

Marcovitch, Tenn. R. 43: 36-37, 1930.

Autographa brassicae—Derris & pyrethrum dusts

Walker & Anderson, J. Ec. Ent. 27: 388-393, 1934.

Autographa brassicae—Derris & sulphur

Roney, Tex. R. 47: 51, 1934.

Autographa brassicae—Rotenone

iGilbert & Popenoe, USDA FB 1371 rev.: 17, 1934.

Autographa californica (Speyer) (Alfalfa looper)*

iComstock, So. Cal. Acad. Sci. B. 29: 25, 1930.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 11, 1934.

McC Campbell, Rocky Mt. Conf. Ent. R. 9: 16-17, 1932.

biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.

Pack, Utah B. 216: 19, 1930.

Autographa chalcites—Parasites

Swezey, Hawaiian Ent. Soc. P. 7: 369-370, 419-421, 1931; P. 8: 8, 1932; P. 8, 370, 1934.

Autographa falcifera (Kby.) (Celery looper)*

Ball, Boyden & Stone, Fla. B. 250: 17, 1932.

Compton, Ill. C. 391: 39, 1932.

iWisecup & Miller, Fla. Ent. 17: 61, '33.

- Autographa interrogationis herschelensis*
nBenjamin, Pan-Pac. Ent. 9: 61-62, '33.
- Automeris io* (F.) (Io moth)*
iBeard, Amer. Boys' Bk. Bugs: 95-99, 1932.
iMcDaniels, Mich. Sp. B. 243: 52-53, 1933.
- Automeris semicaeca*
Schaus, J. Wash. Acad. Sci. 22: 144, 1932.
- Automobile as insect collector*
Fattig, Ent. News 44: 152, 1933.
Fernald, Bklyn. Ent. Soc. B. 26: 231-233, 1931.
- Autoserica*
Arrow, P. Ent. Soc. Wash. 35: 71-73, 1933.
bChapin, P. Ent. Soc. Wash. 34: 122-124, 1932.
- †*Autoserica castanea* (Arrow) (Asiatic garden beetle)*
iBade, Gard. Chron. Amer. 37: 218, '33.
Barre, S.C. R. 46: 71, 1933.
Blauvelt, N.Y. (C.) Ext. B. 296: 38-39, 1934.
bBritton, Conn. B. 315: 607-608, 1930;
B. 344: 123, 1933; B. 360: 466-468, 1934.
iFleming, Nat. Greenkeep. 6(6): 5-7, 1932.
Gardner & Babcock, J. Ec. Ent. 24: 773, 1931.
biHallock, J. Ec. Ent. 23: 281-286, 1930;
24: 204-212, 1931; 25: 407-411, '32;
26: 80-85, 1933; 27: 476-481, 1934.
biHallock, USDA C. 246, 1932, 16p.
Hamilton, N.J. R. 50: 203-207, 1929;
R. 51: 192-200, 1930.
Hamilton, N.J. Dept. Ent. R. f. 1930:
192-200, 1931.
Marlatt, USDA Ent. R. f. 1931: 25-26; R. f. 1932: 9-10.
iRex, N.J. Dept. Agr. C. 178: 5, 9-11, 1930.
Sim, J. N.Y. Ent. Soc. 40: 380-381, '32.
iSim, USDA C. 334: 6, 1934.
Strong, USDA Ent. R. f. 1934: 3.
- Autoserica castanea*—Parasites
King, Mich. R. 15: 158-161, 1930.
- Autoserica castanea*—Quarantine
iBack, N.J. Dept. Agr. C. 182: 20-47, 1930.
- Strong, USDA PQCA R. f. 1930: 29-30.
- Autumn red-winged locust*, see *Arphia pseudonietana*
- Auximobasis*—Key
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 112, 1930.
- Avian itch mite*, see *Dermanyssus gallinae*
- Aviculariidae*—Silk glands
biBrandt, J. Ent. Zool. 25(1): 1-6, 1933.
- Avocado insects*
iHorne, Cal. Avocado Assoc. YB f. 1932: 33-36.
Hutchison, Cal. R. f. 1932-1934: 60-61.
McCulloch, Cal. Avocado Assoc. YB f. 1931: 129-130.
McKenzie, Cal. Avocado Assoc. YB f. 1933: 33-36.
Mackie, Cal. Avocado Assoc. YB f. 1931: 95-96.
iMcLean, Cal. Agr. Mo. B. 20: 442-446, 1931.
McLean, Cal. Avocado Assoc. YB f. 1931: 69-80.
McLean, Cal. Cult. 79: 341, 351, 1932.
Palmer, Cal. Cit. 17: 370, 372, 1932.
Palmer, Cal. Cult. 78: 344, 1932.
Quayle, Calavo News 6(3): 4, 1932;
6(4): 7, 1932.
Quayle, Cal. Avocado Assoc. YB f. 1932: 46-48.
Spencer, Calavo News 6(3): 4, 1932.
Wolcott, Ec. Ent. of West Indies: 512-516, 1933.
Wolfe, Toy & Stahl, Fla. B. 272: 88-94, 1934.
- **Avocado red mite*, see *Paratetranychus yothersi* McG.
- Avocado red spider*, see *Paratetranychus yothersi*
- Avocado weevil*, see *Heilipus lauri*
- **Avocado whitefly*, see *Trialeurodes floricola* Quaint.
- Awania vicina*
nGoding, J. N.Y. Ent. Soc. 38: 90-91, 1930.
- Axelempis*, *A. fasciventris*, *fulvithorax*
nCurran, Amer. Mus. Nov. 467: 9-11, 1931.
- Aysha cambridgei*, *longipalpus*
inBryant, Psyche 38: 118-120, 1931.

Azalea insects

White, J. Ec. Ent. 26: 633, 1933.

Azalea lace fly, see *Stephanitis pyrioides***Azeta schausi**

in Hoffmann, Mex. Univ. Nac. Inst. Biol.

Anal. 5: 202-204, 1934.

Artec ants

iGuenther, tr. by Miall, Naturalist in Brazil: 318-320, 1931.

Azteca xanthochroa salti

Wheeler & Darlington, Psyche 37: 114-115, 1930.

Babia oregona, quadriguttata tenuis, tetra-spilota texana

nSchaeffer, J. N.Y. Ent. Soc. 41, 320-321, 1933.

Baccha spp.

Cole, J. Ec. Ent. 26: 862, 1933.

Curran, Amer. Mus. Nov. 403: 1930, 16p.

niHull, Trans. Amer. Ent. Soc. 56: 140-142, 1930.

Loftin & Christenson, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 115 [P. Pt. 2]: 9, 1932.

Tissot, Fla. R. f. 1934: 56.

Back-crawling scarabaeid grubs, see *Potosia affinis***Bacterial diseases of insects**

Amargos, Rev. de Agr. Cuba 14(9): 65-68, 1933.

Chorine, Internat. Corn Borer Invest. Sci. R. 3: 94-98, 1930.

Grimes, Kans. Bien. R. 7: 101, 1934.

iHusz, Internat. Corn Borer Invest. Sci. R. 3: 91-93, 1930.

Metalnikov, Ermolaev & Skobaltzyn, Internat. Corn Borer Invest. Sci. R. 3: 28-36, 1930.

Metalnikov, Hergula & Strail, Internat. Corn Borer Invest. Sci. R. 3: 148-151, 1930.

Bactra truculenta (Nutgrass borer)

Pemberton, Hawaiian Sugar Pl. Assoc. P. 52: 20, 1933.

Swezey, Hawaiian Sugar P. Assoc. P. 50: 427, 1931.

Swezey, Hawaiian Ent. Soc. P. 7: 355, 1931.; 8: 273, 1933.

Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 125, 1931.

Swezey & Pemberton, Hawaiian Sugar Pl. Assoc. P. 51: 583, 1932.

biWilliams, Hanbd. Insects . . . Hawaiian Sugar Cane Fields: 309-311, '31.

Bactrocera cucurbitae Coq. (Melonfly)*

Hecke, Cal. Dept. Agr. Sp. Pub. 92: 8, 1929.

Smith, Cal. Agr. Mo. B. 19: 246-247, 1930.

Whitney, Hawaiian Ent. Soc. P. 7: 376, 1931.

Willard, Pac. Sci. Cong. 4, P. 4:, 137, 1930.

Bactrocera ferrugineus dorsalis, see *Dacus ferrugineus dorsalis***Bactrocera tryoni, see** *Dacus tryoni***Badebecia urticae**

iPettit, Mich. R. 44: 265-266, 1931.

iPettit, Mich. Ent. R. f. 1931: 15.

Baeoanusia, B. minor, oleae

iCompere, Cal. Univ. Pub. Ent. 5: 257-264, 1931.

Baeria chrysostoma

Van Duzee, Pan-Pac. Ent. 7: 104, 1931.

Baetis

McDunnough, Can. Ent. 64: 79, 1932.

Baetis australis

in Traver, Elisha Mitchell Sci. Soc. J. 47: 230-231, 1932.

Baetis parvus

Ide, Can. Ent. 62: 219, 1930.

Baetis pygmaeus

iIde, Can. Ent. 62: 221, 1930.

Baetisca

McDunnough, Can. Ent. 64: 213-215, 1932.

Traver, J. N.Y. Ent. Soc. 39: 60-61, 1931.

Baetisca callosa 57-60, carolina 46-56.

niTraver, J. N. Y. Ent. Soc. 39: 1931.

Baetisca lacustris, laurentina

niMcDunnough, Can. Ent. 64: 214-215, 1932.

Baesus latrodicti

nDozier, P. Ent. Soc. Wash. 33: 27-28, 1931.

Bagworm, see** *Thyridopteryx ephemerae-formis* Haw.**Bait traps, see** *Traps for insects—BaitBaits, see** *Insecticides—Poison bait***Bajulata**

nBall, P. Biol. Soc. Wash. 46: 26-27, 1933.

- Baker's mealy-bug**, *see* *Pseudococcus maritimus*
- Balaninus caryae**, *see* *Curculio caryae*
- Balbis—Key**
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 92, 1930.
- *Bald-face hornet**, *see* *Vespula maculata*
- Baldulus, B. montanus**
niOman, P. Ent. Soc. Wash. 36: 79-80, 1934.
- *Balsam fir sawyer**, *see* *Monochamus marmorator* Khy.
- Balsam weevil**, *see* *Pissodes dubius*
- Balsam woolly aphid**, *see* *Adelges piceae*
- Baltimore checker-spot**, *see* *Euphydryas phaëton*
- Bamboo borer**, *see* *Chlorophorus annularis*
- Banana insects**
Rios, P.R. Ins. B. 36: 47-51, 1930.
iRios, Rev. Agr. P.R. 26: 79-81, 1931.
iScin, P.R. Ins. C. 103, 1934, 11p.
iWolcott, Ec. Ent. of West Indies: 482-492, 1933.
- *Banana root borer**, *see* *Cosmopolites soridus* Germ.
- Banana spiders**
Baird, Ohio J. Sci. 32: 321-322, 1932.
- Banasa bidens**
nVan Duzec, Pan-Pac. Ent. 10: 170, '34.
- Banasa dimidiata**
ibBaker, Can. J. Res. 4: 201-202, 1931.
- Banasa punctatissima**
niBarber & Bruner, P.R. Dept. Agr. J. 16: 263-264, 1932.
- Bandara**
nBall, Bklyn. Ent. Soc. B. 26: 93, 1931.
- *Banded cucumber beetle**, *see* *Diabrotica balteata* Lec.
- Banded flea beetle**, *see* *Systema taeniata*
- Banded hairstreak**, *see* *Strymon calanus*
- Banded purple**, *see* *Basilarchia arthemis*
- Banded salt marsh mosquito**, *see* *Aedes sollicitans*
- *Banded woolly bear**, *see* *Isia isabella*
- Banding**, *see* *Tree banding*
- Bankia setacea**
iEades, Can. Dept. Int. For Serv. B. 80: 100-102, 1932.
- Bantua spp.**
- nibRehn, P. Acad. Nat. Sci. Phila. 85: 48-60, 1933.**
- Barathra configurata (Walk.) (Bertha armyworm)***
Dustan, Can. Dept. Agr. B. 161: 22, 1932.
iKing, Can. Dept. Agr. Pam. 103 n.s. 1929: 10p.
McMillan & King, Ent. Soc. Ont. R. 60: 27, 1930.
iMunro, N.D. B. 233: 73-75, 1930.
Dak. Farm. 51: 716, 1931.
- Bark beetles**
iArrivee, Amer. For. 46: 71-73, 1930.
ibBedard, J. Ec. Ent. 26: 1128-1134, '33.
Bentley, Tenn. St. Hort. Soc. P. 25: 91-92, 1930.
Briggs, Gard. in the South: 191-193, 1931.
Bunker, South. Lumberman, 145(1833): 14, 1932.
iBurke, Cal. Agr. Mo. B. 21: 365-367, 1932.
Cory & Langford, Md. Ext. B. 68: 9-10, 1933.
bCraighead & St. George, Science 72: 433-435, 1930.
Craighead, et al, J. For. 29: 1001-1018, 1931.
Keen, Science 80(2064 sup.): 8, 1934.
Mathers, Can. Ent. 63: 247-248, 1931.
Spaulding & MacAloney, J. For. 29: 1146-1147, 1931.
Stickel, J. For. 32: 701-703, 1934.
bStruble, Cal. Univ. Pub. Ent. 5: 105-134, 1930.
- Bark beetles—Burning**
Arrivee, Amer. For. & For. Life, 36: 71-73, 1930.
- Bark beetles and blue stain of pine**
ibLeach, Orr & Christensen, J. Agr. Res. 49: 315-341, 1934.
bRumbold, J. Agr. Res. 43: 847-873, '31.
- Bark borers**
Burke, Cal. Agr. Mo. B. 21: 367-369, 1932.
iWalker, Nature Mag. 17: 111, 1931.
- Bark engravers**, *see* *Ips grandicollis*
- Bark louse**, *see* *Scale insects*
- Barn-swallow bug**, *see* *Oeciacus hirundinis*
- *Barnacle scale**, *see* *Ceroplastes cirripediformis* Comst.
- Barnes' climbing cutworm**, *see* *Lampra barnesi*

- Barren-lands subterranean termite, see**
Reticulitermes tibialis.
- Barriers for insects**
 iFlint & Larrimer, USDA FB 1498 rev.:
 11-16, 1934.
 iHaseman, Missouri Ext. C. 275, 1931,
 4p.
 iHingston, Asia 31: 126-127, 1931.
 Hubbard, Sat. Eve. Post 206: 54, 56,
 April 14, 1934.
 iParks, Ohio Ext. B. 144: 5-8, 1934.
- Barriers for insects—Creosote**
 Flint, Bur. Farm. 9(10), Ill. Agr. Assoc.
 Sec.: 9, June 1934.
 Parks, Ohio Farm. 168: 76, 1931.
 iKans. Farm. 72(11): 7, 1934.
- Barriers for insects—Paper**
 Harris & Decker, J. Ec. Ent. 27: 854-
 857, 1934.
- Basilarchia**
 nGunder, Can. Ent. 66: 39-48, 1934.
- Basilarchia archippus (Cram.) (Viceroy)***
 iSaunders, N.Y. St. Mus. Hdbk. 13: 52-
 58, 1932.
- Basilarchia arthemis**
 iSaunders, N.Y. St. Mus. Hdbk. 13: 58-
 67, 1932.
- Basilarchia astyanax**
 bField, Can. Ent. 66: 255-256, 1934.
- Basilarchia astyanax albofasciata**
 Saunders, N.Y. St. Mus. Hdbk. 13: 71,
 1932.
- Basilarchia astyanax purpuratus**
 nGunder, Can. Ent. 66: 43-44, 1934.
- Basilarchia disippus**
 iBeard, Amer. Boys' Bk. Bugs: 171-
 172, 1932.
- Basilarchia lorquini**
 Brown, Ent. News 45: 205-206, 1934.
- Basilarchia lorquini fridayi**
 nGunder, Can. Ent. 64: 284, 1932.
- Basilarchia obsoleta**
 iComstock & Dammers, So. Cal. Acad.
 Sci. B. 32: 27-35, 1933.
- Basilarchia weidemeyrii nevadae**
 iComstock, So. Cal. Acad. Sci. B. 32:
 113-114, 1933.
- Basilia bordmani**
 niRozeboom, J. Parasit. 20: 315-316, '34.
- Basilia corynorhini**
 Ferris, Ent. News 41: 295-297, 1930.
- Basilona imperialis**
 iMcDaniel, Mich. Sp. B. 243: 55-56,
 1933.
 O'Byrne, Ent. News 45: 101-102, 1934.
- Bassareus formosus**
 Phipps, Maine B. 356: 129, 1930.
- Bassareus formosus confluentinus**
 nSchaeffer, J. N.Y. Ent. Soc. 41: 464,
 1933.
- Bassus acrobasis**
 Nickels, Nat. Pecan Grow. Assoc. P.
 30: 60, 1931.
- Bassus brevicauda**
 nMuesebeck, J. Wash. Acad. Sci. 22:
 332-333, 1932.
- Bassus diversus**
 nMuesebeck, P. Ent. Soc. Wash. 35: 48-
 49, 1933.
- Bassus parvus**
 nMuesebeck, J. Wash. Acad. Sci. 22:
 331, 1932.
- Bassus petiolatus**
 nMuesebeck, J. Wash. Acad. Sci. 22:
 330-331, 1932.
- Bassus pumilus**
 Dowden, Ann. Ent. Soc. Amer. 27:
 601-602, 1934.
- Bassus reticulatus**
 nMuesebeck, J. Wash. Acad. Sci. 22:
 332, 1932.
- Bassus spp.**
 Muesebeck, J. Wash. Acad. Sci. 22:
 329-333, 1932.
- Bassus stigmaterus**
 Jaynes, J. Ec. Ent. 25: 65, 1932.
 Jaynes, Sugar B. 10(18): 6-7, 1932.
 iJaynes, USDA TB 363: 18-19, 1933.
 bScaramuzza, Assoc. Tecn. Azucar.
 Cuba P. 6: 91-92, 1932.
 iScaramuzza, Rev. de Agr. Cuba 14(4):
 59-60, 1932.
 Scaramuzza, Facts about Sugar 28:
 102, 1933.
- Batazonus submaculatus**
 nBanks, Amer. Acad. Arts and Sci. P.
 69(1): 85, 1934.
- Bates checker-spot, see** *Phyciodes batesi*
- Bathropsis basalis**
 niCurran, Amer. Mus. Nov. 425: 6-7, '30.
- Bathyplectes corvina**
 Essig & Michelbacher, Cal. B. 567: 62,
 1933.

Bathyplectes curculionis

- Iddings, Ida. B. 179: 29, 1931.
 Marlatt, USDA Ent. R. f. 1933: 17.
 Michelbacher & Essig, J. Ec. Ent. 27: 965-966, 1934.
 Newton, Col. B. 399: 18, 1933.
 bSmith, Ann. Ent. Soc. Amer. 26: 527-528, 1933.
 bSorenson, Utah Acad. Sci. P. 11: 249-251, 1934.

Bathyplectes exigua

- Chamberlin, P. Ent. Soc. Wash. 35: 106, 1933.

Batodes angustiorana

- Hyslop, J. Ec. Ent. 27: 561, 1934.
 Lyne, Cal. Dept. Agr. Sp. Pub. 115: 55, 116, 1932.

Batrachedra—Key

- Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 106, 1930.

Batrissodes globosus

- bPark, J. N.Y. Ent. Soc. 40: 377-378, 1932.

Bats and insects

- iLePrince, Hygeia 9: 327-329, 1931.
 La Hacienda 26: 454, 1931.

Beameria, B. wheeleri

- niDavis, J. N.Y. Ent. Soc. 42: 47-50, '34

Bean aphid, see Aphis rumicis L.*Bean insects**

- Amargos, Rev. de Agr. Cuba 15(15): 69, 1934.
 iAmos, Purdue Agr. 26: 142, 1932.
 Arango, Rev. de Agr. Cuba 11(7): 27, 1930.
 Brannon, J. Ec. Ent. 25: 1112-1113, 1932.
 Browne, Cal. Agr. Mo. B. 21: 347, 1932.
 iCaesar, Ont. Dept. Agr. B. 359: 22-25, 1931.
 Caffrey, Md. Agr. Soc. R. 19: 275-276, 1934.
 iDeLong & Howard, Fla. Grow. 42(1): 8-10, 18, 1934.
 iDustan, Can. Dept. Agr. Ent. B. 32: 32-37, 1932.
 Friend, N.H. Hort. Soc. R. Meet. Manchester, Dec. 8, 1932: 73-79.
 iGilbert & Popenoe, USDA FB 1371 rev.: 10-12, 1934.
 Herrick & Horsfall, J. Ec. Ent. 24: 1084-1086, 1931.

Langford, Peninsula Hort. Soc. Trans. f. 1931: 74-75.

Leonard, P.R. Ins. R. f. 1929-30: 117-118, 1931.

Marcovitch, Tenn. R. 44: 47, 1931.

Marlatt, USDA Ent. R. f. 1933: 19.

iPlank, Cal. Agr. Mo. B. 22: 366-378, 1933.

ibShull, Ida. Res. B. 11, 1933. 42p.

Shull & Wakeland, J. Ec. Ent. 24: 326-327, 1931.

Solon, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1931-1932: 98-99.

Strong, USDA Ent. R. f. 1934: 11.

Tissot, Fla. Grow. 39(11): 24-25, 1931.

iWilkinson, Conn. Storrs Ext. B. 196: 11-13, 1933.

ibWolcott, Ec. Ent. of West Indies: 599-621, 1933.

Bean jassid, *see* Empoasca fabae

Bean lace-bug, *see* Corythucha gossypii

*Bean leaf beetle, *see* Ceratoma trifurcata Forst.

Bean leaf hopper, *see* Empoasca fabae

*Bean leaf roller, *see* Goniurus proteus L.

Bean maggot, *see* Hylemya cilicrura

*Bean thrips, *see* Heliothrips fasciatus Perg.

*Bean weevil, *see* Acanthoscelides obtectus Say

Beckeriella spp.

niCresson, Trans. Amer. Ent. Soc. 60: 202-205, 1934.

*Bedbug, *see* Cimex lectularius L.

Bedellia somnulentella

iBritton, Conn. B. 349: 450-451, 1933.

Bedunia adusta

nVan Duzec, Pan-Pac. Ent. 7: 64, 1930.

Bee culture, *see* Bee-keeping

Bee louse, *see* Braula coeca

Beebae guglielmi

iWilliams, Pan-Pac. Ent. 7: 1-4, 1930.

*Beech blight aphid, *see* Prociphilus imbricator

Beech coccus, *see* Cryptococcus fagi

Beech insects

biBrown, J. Ec. Ent. 27: 327-334, 1934.

Felt, J. Ec. Ent. 26: 977, 1933.

Beech limb borer, *see* Xylotrechus quadrimaculatus

*Beech scale, *see* Cryptococcus fagi

†Beekeeping

- bAlberts, Alaska R. f. 1930: 36-37, 1931.
 Anderson, J. Ec. Ent. 24: 633-636, '31.
 Anderson, J. Ec. Ent. 27: 648-652, '34.
 iBaerg, Ark. Ext. C. 326, 1934. 10p.
 Bieberdorf, Okla. R. f. 1930/1932: 250-252.
 Bilsing, J. Ec. Ent. 25: 495-500, 1932.
 Britton, J. Ec. Ent. 27: 596-598, 1934.
 iCarr, N.J. C. 317, 1934. 85p.
 Davis, Ind. Acad. Sci. P. 43: 200-201, 1933.
 iDickenson, Better Fruit 25(9): 34, 1931.
 Fenton, N.J. Dept. Agr. C. 159, 1929. 44p.
 iHamilton, La Hacienda 27: 356, 1932.
 iHepler, N.H. Ext. B. 46: 1934. 16p.
 Hill, Wyo. R. 44: 22-23, 1934.
 Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash. D.C. Doc. Material 2: 218-220, 1930.
 Marlatt, USDA Ent. R. f. 1932: 33.
 iMunro, N.Dak. B. 256: 36-37, 1932.
 iMunro, N.Dak. Ext. C. 112, 1932. 16p.
 Osborn, J. Ec. Ent. 27: 598-601, 1934.
 iPellett, Flow. Grow. 19: 315-316, 1932.
 Phillips, J. Ec. Ent. 26: 155-162, 1933.
 iPhillips & Demuth, USDA FB 1215 rev. 1932. 22p.
 iRodriguez, P.R. Ins. C. 99, 1932. 21p.
 Sechrist, J. Ec. Ent. 24: 617-621, 1931.
 iSechrist, USDA FB 961 rev. 1932. 10p.
 iSechrist, USDA YB f. 1932: 101-102.
 Skinner & Coleman, Ind. Ext. R. 21: 46, 1932.
 iStiles, Okla. Ext. C. 238, 1932. 24p.
 Uriarte, Rev. de Agr. Cuba 15(15): 44-63, 1934.
 iVoorhies, Todd & Galbraith, Cal. B. 555, 1933. 117p.
 Wallace, Ind. St. YB f. 1933: 368-369, 1934.
 Wicks, Cal. Agr. Mo. B. 23: 238, 1934.
 iWilson, Wis. Ext. C. 258, 1933, 31p.
 J. Ec. Ent. 25: 426, 1932.

Bees

- Bryant, Ky Ext. C. 245: 47-48, 1930.
 iCampbell, Iowa Agr. 24: 21-24, 1933.
 Cockerell, J. N.Y. Ent. Soc. 40: 519-522, 1932.
 iDickinson, Better Fruit 25(5): 22, 1930.

Hootman, Md. Agr. Soc. R. 15: 180-182, 1931.

Kelty, Mich. Quar. B. 12: 35-37, 1929.
 iKingsley, Farm & Ranch 49(48): 2, 10, 1930.

Marlatt, USDA Ent. R. f. 1930: 66-71; R. f. 1933: 43-45.

biMayola, Rev. de Agr. Cuba 14(5): 48-56, 1932; 14(6): 39-60, 1932; 14(7): 79-85, 1933.

Mayola & Almaral, Rev. de Agr. Cuba 14(8): 75-82, 1933.

Pellett, Fla. Grow. 18: 425, 1931.

Prevost, S.C. Wkly. News Notes 18: 39, 41, 1930.

Prevost, S.C. Wkly. News Notes 19(2): 32, 1931.

Strong, USDA Ent. R. f. 1934: 3.

Bees—Breeding

- Filmer, N.J. R. 52: 235-237, 1931.
 Hill, Wyo. R. 39: 22-23, 1929; R. 40: 24, 1930; R. 41: 27-28, 1931; R. 42: 21-22, 1932.

Bees—Brood area and colony size

Filmer, J. Ec. Ent. 25: 336-343, 1932.

Bees—California

Cockerell, Pan-Pac. Ent. 9: 25-28, '33.

Bees—Caucasian

Jessup, Iowa St. Hort. Soc. Trans. 65: 441, 1930.

Bees—Chicago region

biPearson, Ecol. Monog. 3(3): 373-441, 1933.

Bees—Chilled brood

Gooderham, Farmer's Advoc. 65: 886, 1930.

Bees—Colorado

Cockerell, Ann. Ent. Soc. Amer. 26: 41-44, 1933.

Cockerell, Ent. News 45: 29-31, 1934.

Bees—Damaging vineyards

Ryan, Cal. Agr. Mo. B. 19: 779, 1930.

Bees—Diseases

Baldwin, N.Y. Dept. Agr. & Markets R. f. 1932: 82-84, 1933.

Coffey, Farm & Ranch 52(8): 9, 1933.

iDyce & Martin, Ont. Dept. Agr. B. 377, 1934. 24p.

Essig & Hoskins, Cal. Ext. C. 87: 102-104, 1934.

- iGoucher, N.S. Dept. Agr. R. f. 1931: 150-151, 1932; R. f. 1932: 227, 1933.
 iGould, N.Y. Dept. Agr. & Markets C. 429, 1931. 18p.
 Hill, Wyo. R. 41: 30, 1931.
 McCain, Cal. Cult. 78: 342-343, 1932.
 Marlatt, USDA Ent. R. f. 1931: 78-79.
 Marlatt, USDA Ent. R. f. 1932: 34.
 iMunro, N.D. Ext. C. 112: 14-15, 1932.
 iPaddock, Iowa Ext. B. 183: 1932. 8p.
 Pellett, Iowa Beekeepers' B. 11(3), '32.
 Reese, Iowa St. Hort. Soc. Trans. 65: 410-415, 1930.
 iRichmond, Col. St. Ent. C. 62: 22-25, 1934.
 Uriarte, Rev. de Agr. Cuba 15(15): 61-62, 1934.
 Wilson, Midwest Fruitman 7(12): 7, 10, 1934.
 Yeomans, Ga. St. Bd. Ent. B. 75: 7-8, 1931.
 Yeomans, Ga. St. Ent. B. 77: 11-13, '33.
- Bees—Diseases—Brood**
 Birch, Can. Dom. Exp. Farm. Seas. Hints, East. ed. 51: 13-15, 1931; Prairie ed. 51: 12-14, 1931.
 Britton, Conn. B. 338: 532-534, 1932.
- Bees—Diseases—Foulbrood**
 Chambers, Wis. Beekeeping 9(5): 36-41, 1933.
 iThomas & Heard, Tex. C. 64, 1932. 9p.
- Bees—Diseases—Foulbrood American**
 Britton, Conn. B. 327: 492-494, 1931.
 Britton, J. Ec. Ent. 27: 596-597, 1934.
 Carr, N.J. Dept. Agr. C. 151, 1930. 4p.
 iCarr, N.J. Dept. Agr. C. 225, 1932. 6p.
 bDurham & King, J. Ec. Ent. 27: 601-607, 1934.
 iDyce & Martin, Ont. Dept. Agr. B. 377: 5-10, 1934.
 Essig & Hoskins, Cal. Ext. C. 87: 102-103, 1934.
 Goucher, N.S. Dept. Agr. R. f. 1930: 86.
 iGould, N.Y. Dept. Agr. & Markets C. 429: 4-11, 1931.
 iHambleton, USDA FB 1713, 1933. 13p.
 Hill, Wyo. R. 39: 22, 1929; R. 43: 18, 1933.
 iKirk, Penn Dept. Gen. Agr. B. 499: 8-11, 1931.
 iPaddock, Iowa Ext. B. 183: 2-5, 1932.
- Reed, S.D. Hort. 2(1): 9-10, 1930.
 iRichmond, Col. St. Ent. C. 62: 22-24, 1934.
 Ryan, Cal. Agr. Mo. B. 20: 355, 1931.
 iSarabia, Rev. de Agr. Cuba 11(11): 52-53, 1930.
 iSlocum, Wash. Ext. B. 195, 1934. 7p.
 bSturtevant, J. Agr. Res. 45: 257-285, 1932.
 Tanquary, Minn. Hort. 59: 215, 1931.
 Tanquary, N. & S.D. Hort. 3: 159-160, 1931.
 Todd, Iowa St. Hort. Soc. Trans. 65: 407-410, 1930.
 Todd, Pac. Rur. Press 125: 150, 1933.
 Wallace, Ind. YB f. 1932: 315-326.
 Wallace, Ind. Dept. Conserv. Div. Ent. Pub. 127: 6-17, 1933.
 Wallace et al, Ind. Dept. Conserv. R. 14: 63-75, 1932.
 Wilson, Cal. Agr. Mo. B. 20: 235, 1931.
- Bees—Diseases—Foulbrood, European**
 Britton, Conn. B. 327: 492, 1931.
 biBurnside, J. Ec. Ent. 27: 656-668, '34.
 iDyce & Martin, Ont. Dept. Agr. B. 377: 10-14, 1934.
 Essig & Hoskins, Cal. Ext. C. 87: 102-103, 1934.
 iGould, N.Y. Dept. Agr. & Markets C. 429: 11-12, 1931.
 Kirk, Penn. Dept. Agr. Gen. B. 499: 11, 1931.
 iPaddock, Iowa Ext. B. 183: 5-7, 1932.
 Parker, Kans. Ent. Comm. C. 10: 14-15, 1932.
 iRichmond, Col. St. Ent. C. 62: 24-25, 1934.
 iSarabia, Rev. de Agr. Cuba 11(11): 52-53, 1930.
 Wallace, Ind. YB f. 1932: 326-327.
 Wallace, Ind. Dept. Conserv. Div. Ent. Pub. 127: 17-18, 1933.
 Pac. Rur. Press 121: 547, 1931.
- Bees—Diseases—Indiana**
 Wallace, Ind. Dept. Conserv. Div. Ent. Pub. 127, 1933. 19p.
- Bees—Diseases—Legislation—New York**
 N.Y. Dept. Agr. & Markets B. 260: 121-122, 1932; B. 274: 127-128, '33.
- Bees—Diseases—Not carried to man in honey**
 Better Fruit 25(2): 42, 1930.

Bees—Diseases—Oregon

Scullen, Cal. Dept. Agr. Sp. Pub. 115:
38-39, 1932.

Bees—Diseases—Para-foul brood

Yeomans, Ga. St. Ent. B. 77: 12-13,
1933.

Bees—Diseases—Paralysis

Burnside, J. Ec. Ent. 26: 162-168, '33.

Bees—Diseases—Sacbrood

Britton, Conn. B. 327: 494, 1931.

iDyce & Martin, Ont. Dept. Agr. B.
377: 14-17, 1934.

Parker, Kans. Ent. Comm. C. 10: 16,
1932.

Wallace, Ind. YB f. 1932: 327.

Wallace, Ind. Dept. Conserv. Div. Ent.
Pub. 127: 18, 1933.

Bees—Diseases—Suppression

Britton, Conn. C. 73: 8-9, 1931.

Bees—Diseases—Wisconsin

Chambers, Wis. Dept. Agr. B. 141: 91-
92, 109-115, 1933.

Bees—Drought—Effect

Pellett, Flow. Grow. 17: 617-618, 1930.

Root, Iowa St. Hort. Soc. Trans. 65:
400-401, 1930.

Bees—Fall breeding

iCrandall, Conn. (Storrs.) Ext. B. 166,
1932. 7p.

Bees—Fall management

Crandall, Conn. (Storrs) Ext. B. 147,
1930. 9p.

Bees—Feeding

Prevost, S.C. Wkly News Notes 19(26),
1930.

Bees—Flight

Cameron, Que. Soc. Prot. Pl. R. 25/26:
37-38, 1934.

Gooderham, Sci. News Letter 19: 168,
1931.

Marlatt, USDA Ent. R. f. 1931: 77-78.

Bees—Flight—Colony size

bWoodrow, J. Ec. Ent. 27: 624-629, '34.

Bees—Flight and length of life

iHowell & Usinger, Ann. Ent. Soc. Amer.
26: 239-246, 1933.

Bees—Genetics

Alpatov, Pop. Sci. Month. 116(4): 52,
1930.

Bees—Genitalia

biBeck, Utah Acad. Sci. P. 10: 89-137,
1933.

Bees—Habits and behavior

Coryell, Guide to Nature 24(3): 17, '32.

iRau, Acad. Sci. St. Louis Trans. 28:
219-224, 1934.

Bees—Hives

iLucio & Diaz, La Hacienda 28: 297-
299, 1933.

Miller, Guide to Nature 25(1): 9, 1932.

Root, Amer. Fr. Grow. Mag. 51(6):
10-11, 17, 1931.

Bees—Hives—Haydite

Haseman, J. Ec. Ent. 25: 528-530, '32.

iHaseman, J. Ec. Ent. 27: 702-705, '34.

Bees—Hives—Temperature

biDunham, Ohio J. Sci. 31: 181-188, 1931

Bees—Indigestion

iDodd, Nature Mag. 18: 224, 1931.

Bees—Investigations

Filmer, N.J. R. 52: 228-238, 1931.

Hutson, N.J. R. 50: 198-203, 1929.

Hutson, N.J. Dept. Ent. R. f. 1930:
176-182, 1931.

Parker, Kans. Bien. R. 6: 84, 1932.

Bees—Iowa

Paddock, Iowa Beekeepers B. 11(1),
1932.

Bees—Legislation—Canada

Dyce & Martin, Ont. Dept. Agr. B.
377: 21-24, 1934.

Bees—Light—Effect

Lutz, Amer. Mus. Nov. 458: 508, 1931.

Stearns, Country Gentl. 101(4): 97, '31.

Bees—Maryland

Symons, Md. Ext. R. 16: 74, 1930.

Bees—Mimicry

Cockerell, Psyche 40: 60-61, 1933.

Bees—Nest construction

Hicks, Can. Ent. 63: 173-178, 1931.

Bees—North America

Crawford, P. Ent. Soc. Wash. 34: 69-
78, 1932.

Bees—North Carolina

Mitchell, N.C. R. 52: 119, 1929; R. 54:
110, 1931; R. 56: 63-64, 1933.

Bees—Package

iGage, Sci. Amer. 87: 260-261, 1931.

Gooderham, Can. Dept. Agr. Pam. n.s.
107, 1930. 8p.

iGooderham, Can. Dept. Agr. Exp.
Farms (Bee Div.) R. f. 1928: 11-13,
1930.

Hutson, N.J. R. 50: 200-202, 1929.

- biNolan, USDA TB 309, 1932. 44p.
iNolan, USDA YB f. 1932: 279-280.
Todd & Vansell, J. Ec. Ent. 25: 501-502, 1932.
- Bees—Package—Experiments**
bFilmer, J. Ec. Ent. 27: 191-195, 1934.
- Bees—Package—Histological and physiological studies**
Whitcomb, La. R. f. 1929/1931: 136-138.
- Bees—Package—Installation**
iGooderham, Can. Dept. Agr. Pam. n.s. 107, 1930. 8p.
- Bees—Package—Net weight**
bWoodrow & Dunham, J. Ec. Ent. 27: 611-614, 1934.
- Bees—Package—Pollination**
iDalton, Amer. Fr. Grow. Mag. 52(4): 5, 26, 1932.
Louis, Market Grow. J. 49: 438, 1931.
Paddock, Iowa Hort. Soc. Trans. 67: 31-36, 1932.
- Bees—Package—Shipping**
Britton, Conn. B. 327: 500-501, 1931.
Hutson, J. Ec. Ent. 23: 223-225, 1930.
Better Fruit 27(4): 12, 1932.
- Bees—Pests**
Dyce & Martin, Ont. Dept. Agr. B 377: 18-20, 1934.
- Bees—Poisoning**
Britton, J. Ec. Ent. 27: 597, 1934.
Essig & Hoskins, Cal. Ext. C. 87: 105, 1934.
- biGinsburg, J. Agr. Res. 40: 1053-1057, 1930.
Goucher, N.S. Dept. Agr. R. f. 1930: 87-88.
iHerman & Brittain, Can. Dept. Agr. B. 162 n.s.: 158-198, 1933.
Root, Va. St. Hort. Soc. P. 34: 129-131, 1929.
iVansell & Watkins, J. Ec. Ent. 26: 168-170, 1933; 27: 635-637, 1934.
Webster & Crews, Better Fruit 29(4): 8-9, 1934.
iWebster & Crews, J. Ec. Ent. 27: 614-617, 1934.
- Bees—Pollen constancy**
ibBrittain & Newton, Can. J. Res. 9: 334-349, 1933; 10: 255-263, 1934.
- Bees—Predators**
McCain, Cal. Cult. 76: 59, 71, 1931.
- Bees—Proterandry, Flight**
Robertson, Ent. News 41: 154-157, 331-336, 1930.
- Bees—Queen—Rearing**
iLyle, Iowa St. Hort. Soc. Trans. 65: 438-440, 1930.
- Bees—Races**
iBriggs, Iowa Agr. 34: 59, 1933.
Park, Iowa R. f. 1932: 58-59.
Park, Iowa R. f. 1934: 98.
- Bees—Robbing**
Gooderham, Farmer's Advoc. 66: 930, 1931.
- Bees—Rocking movement**
bAlfonsus, J. Ec. Ent. 25: 815-820, 1932.
- Bees—Rocky Mt.**
Cockerell, Amer. Mus. Nov. 458, 1931. 20p.
Cockerell & Blair, Amer. Mus. Nov. 433, 1930. 19p.
Cockerell & Sumner, Amer. Mus. Nov. 490, 1931. 15p.
Rodeck, Amer. Mus. Nov. 496, 1931. 11p.
- Bees—Senses**
[Minnich] Lit. Dig. 113: 17, Apr. 2, 1932.
- Bees—Sex determination**
iWhiting, Penn. Acad. Sci. P. 8: 103-106, 1934.
- Bees—Slides—Preparation**
Rowell, Science n.s. 73: 320, 1931.
- Bees—Southern Florida**
bGraenicher, Ann. Ent. Soc. Amer. 23: 153-169, 1930.
- Bees—Starvation**
Sechrist, USDA Off. Rec. 11: 141, 1932.
- Bees—Stings**
iDodge, Gleanings in Bee Culture 60: 617-619, 1932.
Eckert, Guide to Nature 25(1): 6-7, 1932.
Hambleton, USDA Off. Rec. 10: 210, 1931.
Riley & Johannsen, Med. Ent.: 414-418, 1932.
Snodgrass, P. Ent. Soc. Wash. 34: 108, 1932.
Snodgrass, Sci. News Letter 24: 326, 1933.

Bees—Swarming

Gooderham, S.Dak. Hort. 2(2): 15-16, 1930.

Lothrop, Dak. Farm. 50: 728, 1930.

Munro, Dak. Farm. 50: 606-607, 1930.

iPellett, Flow. Grow. 19: 275-277, 1932.

Bees—Texas

Parks, Bklyn, Ent. Soc. B. 25: 263-267, 1930.

Bees—Trapped by *Asclepias speciosa*

iCollins, Nature Mag. 20: 282, 1932.

Bees—Value

Clark, Iowa Beekeepers' B. 11(3): 1932.

Bees—Water supply

Kimberly, Rur. N.Y. 89: 500, 1930.

Bees—Weight affected by weather

iDunham, J. Ec. Ent. 24: 638-643, 1931.

Bees—Wax

Correa de Sampaio, Rev. de Agr. Cuba 14(10): 98-101, 1933.

iGuide to Nature 25(1): 8, 1932.

Bees—Wintering

[Gilbert] Wyo. R. 44: 20-21, 1934.

Hill, Wyo. R. 39: 23, 1929; 40: 24-25, 1930; 41: 25-27, 1931; 42: 22-23, 1932.

Holloway, Farm & Ranch 50(36): 15, 1931.

Lothrop, Dak. Farm. 50: 951, 1930.

Meacham, N.C. R. 52: 118, 1929; R. 53: 155, 1930; R. 54: 109, 1931; R. 55: 59-60, 1932.

Munro, N. & S.D. Hort. 3: 153-154, 1931.

Paddock, Iowa St. Hort. Soc. Trans. 65: 423-438, 1930.

Bees and plant diseases—Fire blight

Hoppert, Midwest Fruitman 4(10): 5, 1931.

biPierstorff, N.Y. (C.) Mem. 136: 37, '31.
Rosen, Mo. St. Hort. Soc. P. f. 1930/
1932: 67-77.

bRosen, Science n.s. 72: 301-302, 1930.
Thomas, Science n.s. 72: 634, 1930.

Bees and plant diseases—Pear blight

Day, Amer. Bee J. 72: 51-52, 1932.

Bees and pollination

Abrams, Md. Fr. Grow. 2(4): 3-9, 1932.

Abrams, Md. Ext. B. 69, 1933. 19p.

Anderson, Penn. St. Hort. Assoc. P. 71:
10-15, 1930.

Atwood, Que. Soc. Prot. Pl. R. 32: 30-31, 1931.

Bailey, Mich. St. Hort. Soc. R. 35: 7-9, 1934.

Brittain, N.S. Fr. Grow. Assoc. R. 68-69: 40-46, 1931.

Brittain, Que. Soc. Prot. Pl. R. 25/26: 34-37, 1934.

iBrittain & Gooderham, Can. Dept. Agr. B. n.s. 162: 134-157, 1933.

iBurrell, Amer. Soc. Hort. Sci. P. 28: 85-86, 1932.

Clark, Iowa Hort. Soc. Trans. 67: 30-31, 1932.

Crandall, Conn. Pom. Soc. P. 39: 59-63, 1930.

Farrar, Iowa St. Hort. Soc. Trans. 65: 451-454, 1930.

Farrar, J. Ec. Ent. 24: 622-627, 1931.

Gooderham, Can. Dept. Agr. Exp. Farms (Bee Div.) R. f. 1928: 5-8, 1930.

bGooderham, Sci. Agr. 13: 730, 1933.

Heck, Ida. St. Hort. Assoc. Conv. 38: 74-78, 1933.

Hootman, Ont. Fr. Grow. Assoc. R. 61: 16-18, 1930.

Hootman, Md. Agr. Soc. R. 15: 173-175, 1931.

Hootman, Md. St. Hort. Soc. P. 33: 24-38, 1931.

Hootman, Missouri St. Hort. Soc. P. f. 1930/1932: 59-67

iHopfinger, Better Fruit 25(9): 9-10, 1931.

Howlett, Ohio Bi.-Mo. B. 19: 69, 1934.

iHutson, N.J. R. 51: 176-182, 1930.

Johnston, Can. Hort. Fr. & Truck ed. 53: 277, 1930.

Kelty, Neb. St. Hort. Soc. P. 62: 8-17, 1931.

Lieber, Ind. Dept. Conserv. R. 11: 65-69, 1929.

bMalhotra, J. N.Y. Ent. Soc. 39: 273-277, 1931.

iMegee & Kelty, Mich. Quar. B. 14: 271-277, 1932.

Murneek, Neb. St. Hort. Soc. R. 61: 51-54, 1930.

iMurneek, Mo. Res. B. 175: 9-12, 1932.

iMurneek, Mo. St. Hort. Soc. P. f. 1928/1930: 78-83.

- Philipps, J. Ec. Ent. 23: 218-223, 1930.
 Phillips, Penn. St. Hort. Assoc. P. 75: 31-32, 1934.
 iPhipps, Chandler & Mason, Maine B. 363: 266, 1932.
 Prather, Tenn. St. Hort. Soc. P. 26: 18-19, 1931.
 Rea, Conn. Pom. Soc. P. 40: 58-66, '31.
 Rea, N.Y. St. Hort. Soc. P. 78: 30-39, 1933.
 Sampson, USDA Off. Rec. 11: 211, '32.
 Scullen, Oreg. St. Hort. Soc. R. 23: 112-118, 1932.
 West, Maine St. Pom. Soc. R. f. 1932: 43.
 Woodrow, J. Ec. Ent. 25: 331-336, '32.
 bWoodrow, N.Y. (C.) Mem. 147, 1933. 29p.
 iUSDA Ext. Ser. Rev. 2: 63, 1931.
- Bees and temperature**
 biDunham, J. Ec. Ent. 24: 606-610, 1931.
 bWoodrow, N.Y. (C.) Mem. 147: 22-25, 1933.
- *Beet armyworm, see Laphygma exigua**
- Beet flea beetle, see Disonychia xanthomelaena**
- Beet insects**
 iDustan, Can. Dept. Agr. B. 161: 37-38, 1932.
 iGilbert & Popenoc, USDA FB 1371, rev.: 12-13, 1934.
 Wilkinson, Conn. (Storrs.) Ext. B. 196: 14, 1933.
- *Beet leaf beetle, see Monoxia puncticollis**
- *Beet leafhopper, see Eutettix tenellus**
- *Beet webworm, see Loxostege sticticalis**
- Beetles**
 Christensen, Wis. B. 421: 87-88, 1932.
 Gode, Better Homes & Gard. 10(1): 78-79, 1931.
 iGreeves-Carpenter, Nature Mag. 15: 171-172, 1930.
 Lecchman, Can. Dept. Mines, Nat. Mus. B. 67: 139, 1931.
 Thompson, Cit. Ind. 13(9): 21, 24, '32.
 Thompson, Fla. St. Hort. Soc. P. 45: 119-123, 1932.
 Cit. Ind. 13(10): 22, 24, 1932.
- Beetles (Asiatic)**
 iRex, N.J. Dept. Agr. C. 178, 1930. 15p.
- Beetles—Collecting**
 Leech, B.C. Ent. Soc. P. 27: 11-12, '30.
- Beetles—Correction to Bradley's manual**
 Cooper, Can. Ent. 64: 236, 1932.
- Beetles—Diving**
 Herrick, Rur. N.Y. 90: 1171, 1931.
- Beetles—Gregarious habits**
 Smyth, J. Kans. Ent. Soc. 7: 102-119, 1934.
- Beetles—Nocturnal ecology**
 Sci. News Letter 21: 273, 1932.
- Begonia insects**
 Buxton, Hort. n.s. 10: 71-72, 1932.
- Belomicrus franciscus**
 nPate, Ent. News 42: 77-78, 1931.
- Belonuchus schaefferi**
 nCooper, J. N.Y. Ent. Soc. 41: 545-546, 1933.
- Belostomatidae**
 iClarke, Sci. News Letter 22: 144-145, 1932.
 iCummings, Univ. Kans. Sci. B. 21: 197-219, 1933.
- Belted bean beetle, see Diabrotica balteata**
- Belted chion, see Chion cinctus**
- Belted cucumber beetle, see Diabrotica balteata**
- Belvosia pollinosa**
 niRowe, Ent. News 44: 123-124, 1933.
- Belyta spp.**
 nWhittaker, P. Ent. Soc. Wash. 33: 176-181, 1931.
- Bembecia marginata (Harr.) (Raspberry root borer)***
 Baker, Wash. St. Hort. Soc. P. 26: 209, 1930.
 Britton, Conn. B. 344: 155, 1933.
 Clark, N.J. R. 52: 278-279, 1931.
 Clark, N.J. C. 304, 1934. 4p.
 Dean, Kans. St. Hort. Soc. Bien. R. 40: 150, 1930.
 Essig, Hist. of Ent.: 241-242, 1931.
 Houser, Ohio B. 454: 75-76, 1930.
 Jones and Hanson, Wash. Ext. B. 180: 5, 1933.
 Smith, Cal. B. 505: 33, 1931.
- Bembicinus godmani**
 Rodeck, Col.-Wyo. Acad. Sci. J. 1(3): 61, 1931.
- Bembidion spp.**
 nAndrewes, Conn. Acad. Arts & Sci. Mem. 10: 26-27, 1934.
 nCarr, Can. Ent. 64: 191-192, 1932.
 Darlington, Psyche 41: 72-77, 1934.

Bembidion spp. *Cont'd*

nDarlington, Bost. Soc. Nat. Hist. Occ.

Pap. 8: 157-160, 1934.

nHatch & Ortenburger, Univ. Okla. Biol.

Surv. Pub. 2: 11, 1930.

nMutchler, Amer. Mus. Nov. 686: 3, '34.

Bembix nubilipennis

Rau, Psyche 41: 243-244, 1934.

Bemisia gossypiperda

ibKunkel, Que. Soc. Prot. Pl. R. 25/26:
29, 1934.

Bemisia inconspicua (Quaint.) (Sweet-potato whitefly)*

Berger, Cit. Ind. 11(8): 5, 1930.

Watson, Fla. B. 232: 94-95, 1931.

[Beneficial insects]

iAaron, Nature Mag. 22: 110-112, 1933.

Alden, Ga. St. Bd. Ent. B. 71: 19-20,
1930; B. 73: 26-28, 1930.

bBaldus, Smithsonian. R. f. 1931: 431-442,
1932.

iBruner, Rev. de Agr. Cuba 12(4): 11-
18, 1930.

Clausen, Smithsonian. Ann. R. f. 1932:
353-362, 1933.

ibDunn, Amer. J. Pharm. 104: 667-694,
1932.

Fullaway, Hawaii Bd. Comm. Agr. &
For. Bien. R. f. 1930: 79, 1931.

Fullaway, Hawaiian For. & Agr. 27:
126-127, 1930.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.:
3-5, 1934.

iGilbert & Popenoe, USDA FB 1371,
rev.: 45-46, 1934.

Holloway, Facts about Sugar 25: 744-
746, 1930.

Hutchison, Cal. R. f. 1929-1930: 35-37,
1931; R. f. 1930-1931: 37-38, 1932.

Knowlton, Utah Acad. Sci. P. 7: 75-76,
1930.

ibMetcalf & Flint, Fund. of Ins. Life, ed.
1: 43-79, 1932.

Munro, N. & S.D. Hort. 4: 69, 1932.

iOtero, Rev. de Agr. Cuba 15(5): 45-51,
1934.

bPemberton, Internat. Soc. Sugar Cane
Tech. Cong. 4, B. 3 [P. Pt. 2], 1932.
2p.

ibPickwell, Cal. St. Teach. Coll. Insects:
230-235, 1933.

Ryan, Los Angeles Co. Com. Agr. R. f.
1931: 18; R. f. 1932: 15.

Smith, Ann. Ent. Soc. Amer. 26: 516-
517, 1933.

Snapp, USDA FB 1557 rev.: 41-42, '31.

bTillyard, Pac. Sci. Cong. 5, P. 5: 3547-
3557, 1934.

Watson, Fla. R. f. 1929: 54-55; R. f.
1930: 68; R. f. 1934: 52.

Watson & Thompson, Fla. R. f. 1932:
70-71; R. f. 1933: 76-77.

Benjaminia 15-16, euphydryadis 16, fuscipennis 15

Cushman, PUSNM 82(14): 1933.

Bennarella bicoloripennis, fusca

niMuir, Pan-Pac. Ent. 7: 12-13, 1930.

Bephrata cubensis (Annona seed chalcid)

iBruner, Cuba, Santiago de las Vegas.
C. 75: 6-8, 1931.

ibDozier, P.R. Dept. Agr. J. 16: 109-112,
1932.

Gonzalez, La Hacienda 26: 320, 1931.

Bermuda grass insects

Swezey, Hawaiian Ent. Soc. P. 8: 533-
534, 1934.

Berry pests, see Small fruit insects***Bertha armyworm, see Barathra con-figurata Walk.****Bertkaia crosbyana, 364-365, lepici-dinaria 363-364**

niChapman, J. N.Y. Ent. Soc. 38: 1930.

Beverages—Insects in

Fattig, Nat. Carbonator & Bottler
55(336): 13-14, 58-59, 1933.

Bezzia banksi

nGerry, Psyche 40: 95-96, 1933.

Bezzimyia busckii

iGreene, P. Ent. Soc. Wash. 36: 29, '34.

Bibio albipennis (March flies)

Britton, Conn. B. 338: 593-594, 1932.

Herrick, Rur. N.Y. 90: 755, 1931.

Strickland, Alberta Ext. B. 24: 56, '33.

Bible—Insects

Birdson, Bklyn. Ent. Soc. B. 29: 102-
106, 1934.

Bichromonecta

nHungerford, J. Kans. Ent. Soc. 7: 98,
1934.

Bidens borer, see Epiblema otiosana**Bifidungulus viridicans**

nKnight, Bklyn. Ent. Soc. B. 25: 1-2,
1930.

Big bedbug, *see* *Triatoma sanguisuga*

Big-headed grasshopper, *see* *Aulocara elliotti*

Billbugs

Marlatt, USDA Ent. R. f. 1931: 30.

Sanderson, Ins. Pests Farm, ed. 3: 122-124, 1931.

iSatterthwait, USDA FB 1003, rev. 1932. 22p.

†Biological control

Baird, Sci. Agr. 13: 405, 1933.

Baird, Ent. Soc. Ont. R. 65: 72-73, '34.

Baird, Pac. Sci. Cong. 5, P. 5: 3537-3542, 1934.

iBurdette & Headlee, N.J. C. 311: 11-13, 1934.

Clausen, Smithson. R. f. 1932: 353-362, 1933.

Essig, Hist. of Ent.: 274-402, 1931.

Frison, Peoria Acad. of Sci. 1(2): 2-3, 1933.

iFullaway, Mid-Pac. Mag. 42: 339-340, 1931.

Howard, Smithson. Misc. Coll. 84: 498-534, 1930.

Hutchison, Cal. R. f. 1931-1932: 58-60.

bKnowlton, J. Ec. Ent. 27: 998-1004, 1934.

bKnowlton & Janes, J. Ec. Ent. 26: 1011-1016, 1933.

Mortensen, Cactus & Succul. Soc. Amer. J. 1: 173, 1930.

iMunro & Riddle, N.D. C. 42 rev.: 4, 1933.

Riley, Science, n.s. 73: 475-476, 1931.

Sanderson, Ins. Pests Farm, ed. 3: 23-24, 1931.

Smith & Armitage, Cal. B. 509: 22-28, 1931.

Swezey, Pac. Sci. Cong. 5, P. 5: 3531-3536, 1934.

Thomson, Cit. Ind. 12(5): 5, 28-29, 32, 1931.

Weir, Can. Dept. Agr. R. f. 1933-1934: 62-63.

Weldon, Pac. Rur. Press 119: 510, 1930.

Biological control of weeds

Howard, Hist. of Appl'd Ent.: 534-536, 1930.

Lockwood, Cal. Agr. Mo. B. 22: 280-282, 1933.

iMetcalf & Flint, Funds. of Ins. Life: 73-75, 1932.

Tillyard, Pac. Sci. Cong. 5, P. 5: 3555, 1934.

Biological explorations

Engelhardt, Bklyn. Ent. Soc. B. 29: 57-64, 1934.

Engelhardt, J. N.Y. Ent. Soc. 42: 366-367, 1934.

Biological specimens—Preservation in gelatin

Eagleson, J. Ec. Ent. 25: 936-937, '32.

Biorhiza forticornis

McDaniel, Mich. Sp. B. 243: 62, 1933.

Birch insects

Orr, Minn. Hort. 60: 221, 1932.

iSimpson, For. Chron. 8: 89-92, 1932.

Birch leaf miner, *see* *Fenusa pumila*

Birch leaf-mining sawfly, *see* *Phyllotoma nemorata*

*Birch skeletonizer, *see* *Bucculatrix canadensisella* Chamb.

Bird grasshopper, *see* *Schistocerca americana*

Bird house insects

McAtee, P. Ent. Soc. Wash. 33: 186, 1931.

Bird locust, *see* *Schistocerca lineata*

Bird malaria, *see* *Malaria—Avian*

*Bird tick, *see* *Haemaphysalis cinnabarina* Koch.

Birds—Parasites

bZebrowski, Ind. Audubon Soc. Audubon YB f. 1932: 34-51.

†Birds and insects

Ainslie, Wilson B. 42: 193-197, 1930.

Bell, Bklyn. Ent. Soc. B. 25: 8, 1930.

Bjerknes, Carnegie Inst. of Washington YB 31: 311, 1932.

Bradshaw, Can. Field-Nat. 48: 68-69, 1934.

Brower, J. Ec. Ent. 27: 342-344, 1934.

Christy, Ind. Audubon Soc. Audubon YB f. 1931: 82-83.

Day, Amer. For. 36: 555-557, 594, '30.

Fullaway, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 82, 1931.

Fulton, Goldfom 5(5): 88-89, 1931.

Gillette, Amer. For. 36: 141, 1930.

iGraham, Mich. Acad. Sci. Pap. 11: 389-397, 1930.

†Birds and insects *Cont'd*

- iHadley & Hawley, USDA C. 332: 19-20, 1934.
 Kalmbach, USDA FB 1456: 4, 1930.
 Knowlton et al, J. Ec. Ent. 27: 1196-1197, 1934.
 McAtee, USDA FB 1682, 1931. 14p.
 bMcAtee, Smithsonian. Misc. Coll. 85(7), 1932. 201p.
 McAtee, USDA YB f. 1932: 116-117.
 McAtee, Ent. News 44: 235, 1933.
 bMaheux, Nat. Can. 59: 244-246, 1932.
 iMay, Mass. Dept. Agr. Dept. Pub. 133, 1931. 10p.
 Mougeot, Nat. Can. 58: 153-154, 1931.
 Pickwell, St. Louis Acad. Sci. Trans. 27: 96-97, 1931.
 Stevens, N.D. B. 241: 6, 1930.
 bZebrowski, Ind. Audubon Soc. Audubon YB f. 1932: 46-51.
 USDA Off. Rec. 11, 95, 1932.
- Bird's nest insects**
 Whitehead, J. Ec. Ent. 26: 292-293, '33.
- Bithoracochaeta leucoprocta**
 iHuckett, Trans. Amer. Ent. Soc. 60: 61-62, 1934.
- Biting house fly, see Stomoxys calcitrans**
- Biting lice, see Trichodectidae**
- Bitoma paradisea**
 nBlatchley, Can. Ent. 62: 32-35, 1930.
- Bittacus, spp.**
 iCarpenter, B. Mus. Comp. Zool. 72: 258-267, 1931.
 Carpenter, Bklyn. Ent. Soc. B. 27: 150, 1932.
 Carpenter, Psyche 38: 49-50, 1931.
 iSetty, Ann. Ent. Soc. Amer. 24: 467-484, 1931.
- *Black army cutworm, see Actabia fennica Tausch.**
- *Black blister beetle, see Epicauta pennsylvanica Deg.**
- Black blow fly, see Phormia regina**
- *Black carpenter ant, see Camponotus herculeanus pennsylvanicus Deg.**
- *Black carpet beetle, see Attagenus piceus Oliv.**
- *Black cherry aphid, see Myzus cerasi F.**
- *Black cherry fruit fly, see Rhagoletis fausta O. S.**
- *Black citrus aphid, see Toxoptera aurantiae Boyer**
- Black clear wing, see Conopia prosopis**
- Black crazy ant, see Monomorium minimum**
- Black cricket, see Gryllus assimilis**
- *Black cutworm, see Agrotis ypsilon Rott.**
- Black-faced climbing cutworm, see Conistra sidus**
- Black-faced leaf hopper, see Thamnotettix nigrifrons**
- Black field cricket, see Gryllus assimilis**
- Black fungus beetle, see Alphitobius piceus**
- *Black grain stem sawfly, see Trachelus tabidus F.**
- Black grass bug, see Irbisia solani**
- *Black-headed budworm, see Peronea variana Fern.**
- *Black-headed fireworm, see Rhopobota naevana Hbn.**
- Black hickory aphid, see Melanocallis fumipennella**
- *Black Hills beetle, see Dendroctonus ponderosae Hopk.**
- *Black-horned tree cricket, see Oecanthus nigricornis Walk.**
- *Black horsefly, see Tabanus atratus F.**
- *Black ladybeetle, see Rhizobius ventralis**
- *Black-legged tortoise beetle, see Jonthonota nigripes Oliv.**
- Black onion fly, see Tritoxa flexa**
- *Black peach aphid, see Anuraphis persicae-niger Smith**
- *Black pecan aphid, see Melanocallis caryaefoliae Davis**
- Black sawyer beetle, see Monochamus scutellatus**
- *Black scale, see Saissetia oleae Bern.**
- *Black swallowtail, see Papilio polyxenes F.**
- *Black vine weevil, see Brachyrhinus sulcatus F.**
- Black violet aphid, see Micromyzus violae**
- Black wheat-stem sawfly, see Trachelus tabidus**
- *Black widow spider, see Latrodectus mactans F.**
- Black-winged locust, see Dissosteira carolina**
- Blackberry insects**
 Wilcox & Baker, W. Wash. Hort. Assoc. P. 25: 6-13, 1934.
- Blackberry leaf miner, see Metallus rubi**
- Blackberry mite, see Eriophyes essigi**

- Blackberry sawfly**, *see* *Pamphilius dentatus*
- Blackflies**, *see* *Simuliidae*
- Blaisdell's ladybird**, *see* *Lindorus lophanthæ*
- Blapstinus fuliginosus**
Lockwood, Cal. Agr. Mo. B. 18: 769, 1929.
iSimmons, Reed & McGregor, USDA C. 157: 29-30, 1931.
- Blapstinus fuscus**
Taubenhaus & Christensen, Assoc. South. Agr. Workers P. 35: 344, '34.
- Blapstinus gregalis**
bLarson & Hinman, J. Ec. Ent. 25: 972, 1932.
- Blapstinus pimalis**
O'Dell, Ariz. Com. Agr. & Hort. R. 19/20: 29, 1929.
- Blapstinus substriatus**
Strand, Mont. B. 269: 12-13, 1932.
- Blastobasis—Key**
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 111-112, 1930.
- Blastophaga grossorum**, *see* *Blastophaga psenes*.
- Blastophaga psenes**
Essig, Hist. of Ent.: 259-262, 1931.
iMetcalfe & Flint, Fund. of Ins. Life: 58-59, 1932.
ibSmith & Hansen, Cal. B. 506: 15-18, 1931.
bWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 251-253, '31.
- Blastophaga psenes and Endosepsis**
iSimmons, Reed & McGregor, USDA C. 157: 46-48, 1931.
- Blastophaga sp. and plant disease**
Condit & Cruess, La Hacienda 27: 261, 1932.
- Blastothrix sericea**
Glendenning, B.C. Ent. Soc. P. 28: 30-31, 1931.
Glendenning, J. Ec. Ent. 25: 151, 1932.
Glendenning, Can. Ent. 65: 169-171, 1933.
Glendenning, Pac. Sci. Cong. 5, P. 5: 3543-3545, 1934.
Lyne, Cal. Agr. Mo. B. 23: 232, 1934.
Swaine, Pac. Sci. Cong. 5, P. 5: 3390-3391, 1934.
- Weir, Can. Min. Agr. R. f. 1932-1933: 52.
- Blasturus austrinus, collinus**
nTraver, Elisha Mitchell Sci. Soc. J. 47(1): 124-126, 129-133, 1932.
- Blasturus cupidus**
biNeave, Ecology 11: 568-576, 1930.
- Blasturus gracilis**, *see* *Leptophlebia gracilis*
- Blasturus grandis** 127-129, *intermedius* 136-138
nTraver, Elisha Mitchell Sci. Soc. J. 47(1): 1932.
- Blasturus pacificus**
niMcDunnough, Can. Ent. 65: 155-156, 1933.
- Blatta orientalis L. (Oriental cockroach)***
Buckell, B.C. Ent. Soc. P. 27: 28, 1930.
Cole, J. Ec. Ent. 25: 902-905, 1932.
Hebard, Minn. TB 85: 21, 1932.
biHerrick & Griswold, N.Y. (C) Ext. B. 202: 22, 1931.
iHerrick & Griswold, N.Y. (C) Ext. B. 202, rev.: 20-21, 1934.
bHockenyos, J. Ec. Ent. 26: 792-794, 1162-1169, 1933.
iO'Kane et al., N.H. TB 54, 1933. 23p.
Rehn, Trans. Amer. Ent. Soc. 59: 188-189, 1933.
Shull & Rice, J. Ec. Ent. 26: 1083-1089, 1933.
Shull, Riley & Richardson, J. Ec. Ent. 25: 1070-1072, 1932.
- biSnodgrass**, Smithsonian Misc. Coll. 89(8): 71-79, 1933.
Twinn, Ent. Soc. Ont. R. 65: 128, 1934.
- biYeager**, Shull & Farrar, Iowa J. Sci. 6: 325-339, 1932.
- Blattella germanica (L.) (German cockroach)***
Buckell, B.C. Ent. Soc. P. 27: 27-28, 1930.
Glaser, J. Exp. Med. 51: 903-907, 1930.
Grady, Soap 8(7): 92, 1932.
Herrick & Griswold, N.Y. (C) Ext. B. 202 rev.: 18-21, 1934.
iMcDaniel, Mich. Sp. B. 214: 41, 1931.
iO'Kane, N.H. TB 54, 1933. 23p.
Yeager & Tauber, Soc. Exp. Biol. & Med. P. 30: 861-863, 1933.
iParks & Jones, Ohio Ext. B. 97 rev.: 9-10, 1933.

Blattella germanica (L.) Cont'd

Pemberton, Hawaiian Ent. Soc. P. 8:
509, 1934.

Ridlon, U.S. Pub. Health R. 46: 1624-
1635, 1931.

biRoss, Ill. St. Acad. Sci. Trans. 22: 206-
216, 1930.

bShull & Rice, J. Ec. Ent. 26: 1083-
1089, 1933.

iSnodgrass, Smithson. Sci. Ser. 5: 79-81,
1930.

Twinn, Ent. Soc. Ont. R. 65: 128, 1934.
Watson, Fla. Grow. 41(8): 18, 1933.

Williams, U.S. Pub. Health R. 46:
1680-1694, 1931.

Blattella subvittata

inHebard, P. Acad. Nat. Sci. Phila. 81:
58-60, 1929.

Blattidae

Caudell, Ent. News 42: 204, 1931.

iHebard, P. Acad. Nat. Sci. Phila. 81:
1-109, 1929.

inRehn, Trans. Amer. Ent. Soc. 56: 19-
71, 1930; 58: 103-137, 1932; 59: 166-
190, 1933.

biRehn, P. Acad. Nat. Sci. Phila. 83:
305-387, 1931; 84: 405-511, 1933.

Blattina

nHebard, P. Acad. Nat. Sci. Phila. 81:
84, 1929.

Blattinae—Apterism & subapterism

Rehn, Ent. News 43: 201-206, 1932.

Blepharoneura hirsuta

inBates, Psyche 40: 48-50, 1933.

Blethisa quadricollis

Frost, Bklyn. Ent. Soc. B. 27: 195, '32.

†Blissus leucopterus (Say) (Chinch bug)*
Bailey, Vt. St. Comm. Agr. Bien. R.
17: 71, 1934.

Blauvelt, N.Y. (C.) B. 296: 39-40, '34.

iBuchanan & Stevenson, Iowa R. f.
1933: 70.

Burke, J. Ec. Ent. 27: 1100-1101, 1934.

Dahms, Okla. R. f. 1932/1934: 269.

Davis, Ind. Acad. Sci. P. 43: 195, 1933.

iDavis, Purdue Agr. 28: 2, 9, 1933.

Doane, Common Pests: 231-232, 1931.

iDrake & Decker, Iowa YB Agr. f. 1934:
77-93.

Felt, J. Ec. Ent. 26: 994, 1933.

iFlint, Dungan & Bigger, Ill. C. 419,
1934, 16p.

iFlint & Larrimer, USDA FB 1498 rev.
1934, 17p.

Grimes, Kans. Bien. R. 7: 102, 1934.

iHaseman, Missouri Ext. C. 275, 1931,
4p.

iHaseman, Missouri B. 310: 31, 1932;
B. 340: 51, 1934.

Henson & Drake, Iowa Ext. C. 205,
1934, 12p.

Hutson, Mich. R. 47: 229, 1934.

Isely & Horsfall, J. Kans. Ent. Soc. 4:
70-73, 1931.

Lutken, S.C. Wkly. News Notes 20(1),
1931.

Marlatt, USDA Ent. R. f. 1933: 17.

ibMex. Agr. & Fomento. Principales
Plagas: 65-66, 1930.

iParks, Ohio Ext. B. 144, 1934, 8p.

iSanderson, Ins. Pests Farm, ed. 3: 137-
142, 1931.

ibShelford, Ill. St. Nat. Hist. Surv. B.
19: 487-547, 1932.

Skinner & Coleman, Ind. Ext. R. 22:
51, 1933; R. 23: 50-51, 1934.

iSmith, J. Kans. Ent. Soc. 5: 76-77,
1932; 7: 43-44, 1934.

Strong, USDA Ent. R. f. 1934: 8.

Thomasson, Missouri Ext. C. 269: 61-
62, 1931.

Twinn, Ent. Soc. Ont. R. 64: 67, 1933.

Twinn, Ent. Soc. Ont. R. 65: 116, 1934.

iWalton, USDA FB 835 rev.: 4-6, 1931.

Williams, Ohio B. 532: 43, 1934.

iLawn Care 6(5): 1-2, 1933.

Miss. St. Pl. Bd. Quar. B. 10(3): 14
1930.

Science, n.s. 80(2064 sup.): 7, 1934.

Blissus leucopterus—Barriers

Decker & Harris, Iowa R. f. 1934: 102-
103.

Harris & Decker, J. Ec. Ent. 27: 854-
857, 1934.

iMumford, Ill. R. 45: 129-130, 1932.

Blissus leucopterus—Burning

iDavis, Ind. Ext. Leaf. 125, rev. 1934,
4p.

Blissus leucopterus—Federal aid

C. L. L. Seed World 36(12): 28, 1934.

Blissus leucopterus—Losses caused by

iBliss, Iowa Ext. R. f. 1934: 20-21.

- Drake, Bur. Farm. 10(1), Iowa Farm. Bur. Mess.: 11, Sept. 1934.
- Blissus leucopterus—Resistant corn**
- Holbert et al., J. Ec. Ent. 27: 121-124, 1934.
- Mumford, Ill. R. 46: 140-141, 1933.
- Blister beetles**
- iBritton, Conn. B. 344: 80-81, 1933.
- Cacsar, Ont. Dept. Agr. B. 359: 63-64, 1931.
- Davis, Ind. Ext. B. 186: 9, 1932.
- bDietz & Zeisert, J. Ec. Ent. 27: 73-78, 1934.
- iDustan, Can. Dept. Agr. B. 161 n.s.: 68-69, 1932.
- Gibson, Can. Dept. Agr. B. n.s. 99 rev.: 33, 1934.
- iGilbert & Popenoe, USDA FB 1371 rev.: 5-6, 1934.
- Haseman, Missouri Ext. C. 257: 2-3, 1930.
- iKnowlton, Utah Leaf. 52, 1934, 2p.
- iMunro & Riddle, N.D.C. 42 rev.: 17-18, 1933.
- Sanderson, Insect. Pests Farm, ed. 3: 87-88, 1931.
- Severin, S.D. R. f. 1933/34: 40.
- Skinner, Ind. R. 46: 26, 1933.
- Tissot, Fla. Ent. 16: 30, 1932.
- Twinn, Ent. Soc. Ont. R. 65: 113-114, 1934.
- Wallace, Ind. Dept. Conserv. R. 13: 50, 1931.
- Wallace, Ind. YB f. 1931: 82r.
- iWard et al., Ind. Ext. B. 89, 4 rev.: 19, 1933.
- Watson, Fla. B. 232: 32, 1931.
- Blood of insects, see Insects—Blood**
- *Blood-sucking conenose, see Triatoma sanguisuga Lec.**
- Blood-sucking insects**
- Dampf, Science n.s. 77: 20-21, 1933.
- Haseman, Missouri B. 340: 50, 1934.
- bSchwardt, Ann. Ent. Soc. Amer. 25: 603-613, 1932.
- bUsinger, Can. Ent. 66: 97-100, 1934.
- Blowflies**
- Babcock & Boughton, Tex. R. 45: 200, 1932.
- Davis, Ind. Ext. B. 105(rev. ed.): 7-8, 1933.
- McDaniel, Mich. B. 144: 14-15, 1932.
- iParman, USDA C. 247: 1932, 4p.
- bRoberts, Ecology 14: 306-314, 1933.
- New Internat. YB f. 1931: 289
- Blowflies—Larvae—Surgical use, see Maggot therapy**
- Blowflies—Olfactory response**
- bAbbott, Ann. Ent. Soc. Amer. 25: 241-244, 1932.
- biAbbott, Psyche 39: 145-149, 1932.
- McIndoo, P. Ent. Soc. Wash. 33: 311, 1931.
- biMcIndoo, J. Agr. Res. 46: 607-625, '33.
- Blowflies and Tetraplodon**
- Erlanson, Bryologist 33(1): 13-14, '30.
- Blue bug, *see* *Argas miniatus*
- Blue damsel fly**
- iSnyder, Nature Mag. 18(1): 22-23, '31.
- Blue-eyed satyr, *see* *Cercyonis alope*
- Bluegrass webworm, *see* *Crambus teterrellus*
- Blue louse, *see* *Haematopinus eurytetrus*
- Blue-legged locust, *see* *Melanoplus bispinosus*
- Blue mud-dauber, *see* *Chalybion cyaneum*
- Blue swallowtail, *see* *Papilio philenor*
- Blueberry cutworm, *see* *Polia purpurissata*
- *Blueberry flea beetle, *see* *Altica torquata*
- Blueberry insects**
- bCrowley, Wash. B. 276: 14-16, 1933.
- Dirks & Mason, Maine B. 369: 552-553, 1933.
- Engelhardt, Bklyn. Ent. Soc. B. 26: 134, 1931.
- Headlee, Amer. Cranb. Grow. Assoc. P. 62: 18, 1931.
- Johnston, Mich. Sp. B. 252: 41-43, '34.
- iPhipps, Maine, B. 356: 107-232, 1930; B. 360: 189, 1931.
- Blueberry looper, see Drasteria graphica**
- *Blueberry maggot, see Rhagoletis pomonella Walsh**
- Blueberry stem borer, *see* *Oberea myops*
- *Bluebottle flies, *see* *Calliphora* spp.
- Bluegrass billbug, *see* *Calendra parvula*
- Blunt-nosed leafhopper, *see* *Ophiola striatula*
- Bocydium bullifera**
- nGoding, Amer. Mus. Nov. 421: 4, 1930.
- *Body louse, *see* *Pediculus humanus corporis* Deg.
- Body louse of birds, *see* *Eomenacanthus stramineus*

- Bogeria buccata**
Painter, Fla. Ent. 14: 33, 1930.
- Bolitophila atlantica**
inFisher, Can. Ent. 66: 276, 1934.
- Bolitotherus cornutus**
biAuten, Ohio J. Sci. 33: 280-287, 1933.
biPark & Keller, Ecology 13: 340-344, 1932.
- Bolivarita, B. conjuncta**
inHebard, Trans. Amer. Ent. Soc. 59: 52-56, 1933.
- ***Boll weevil**, *see* *Anthonomus grandis* Boh.
- ***Boll worm**, *see* *Heliothis obsoleta* F.
- Bolothrips nigra**
inMoulton & Steinweden, Bernice P. Bishop Mus. B. 98: 167-168, 1932.
- Bolteria hirta**
Sweet, J. Ent. & Zool. 22: 79-80, 1930.
- Bombarding Beetle**, *see* *Eleodes dentipes*
- Bombidae**
biNeave, Can. J. Res. 8(1): 62-72, 1933.
biRitcher, Ann. Ent. Soc. Amer. 26: 53-63, 1933.
- Bombomina engelhardti**
nBromley, Ann. Ent. Soc. Amer. 24: 434-435, 1931.
- Bombomina nigella**
nBromley, Ann. Ent. Soc. Amer. 27: 93, 1934.
- Bombomina thoracica**
Bromley, J. N.Y. Ent. Soc. 38: 166, '30.
- Bombus**
bFrison, Can. Ent. 62: 49-54, 1930.
iStep, Bees, Wasps, Ants: 1-27, 1932.
iWeed, Insect Ways: 232-255, 1930.
- Bombus affinis**
iAaron, Nature Mag. 19: 158, 1932.
- Bombus americanorum**
biFrison, Ann. Ent. Soc. Amer. 23: 644-664, 1930.
Rau, Acad. Sci. St. Louis Trans. 28: 223-224, 1934.
- Bombus fervidus**
Bequaert, Bklyn. Ent. Soc. B. 27: 151, 1932.
Gibson, Can. Field-Nat. 44: 146, 1930.
- Bombus geei nigribasis**
nCockerell, Amer. Mus. Nov. 480: 5, '31.
- Bombus lapidarius (Large red-tailed humble-bee)**
iStep, Bees, Wasps, Ants: 7-10, 1932.
- Bombus lucorum (Small earth humble-bee)**
iStep, Bees, Wasps, Ants: 12-15, 1932.
- Bombus melanopygus**
Neave, Can. J. Res. 8(1): 68, 1933.
- Bombus proavus**
inCockerell, Ann. Ent. Soc. Amer. 22: 309-311, 1931.
- Bombus rufocognitus nefandus**
nCockerell, Amer. Mus. Nov. 480: 6, '31.
- Bombus spp.**
Metcalf & Flint, Fund. of Insect Life: 323-325, 1932.
biPlath, Bumblebees & Their Ways 1934, 201p.
- Bombus vagans**
biFrison, Bklyn. Ent. Soc. B. 25: 109-122, 1930.
- Bombyliidae**
Curran, Amer. Mus. Nov. 415, 1930, 16p.
iCurran, Amer. Mus. Nov. 456: 6-8, '31.
bPainter, Ann. Ent. Soc. Amer. 23: 793-806, 1930.
inPainter, Amer. Mus. Nov. 642, 1933, 10p.
Painter, J. Kans. Ent. Soc. 6: 5-18, '33.
- Bombylius albicapillus diegoensis**
nPainter, J. Kans. Ent. Soc. 6: 16, 1933.
- Bombylius austini**
nPainter, J. Kans. Ent. Soc. 6: 16-17, 1933.
- Bombylius gibbosus**
Painter, Trans. Amer. Ent. Soc. 58: 142-143, 1932.
- Bombylius texanus**
nPainter, J. Kans. Ent. Soc. 6: 17-18, 1933.
- Bombyx mori L. (Silkworm)***
iAcqua, Rev. de Agr. Cuba, 14(14): 83-94, 1933; 14(8): 25-29, 1933.
iAmargos, Rev. de Agr. Cuba, 14(8): 46-65, 1933; 14(9): 65-74, 1933; 14(10): 60-64, 1933; 15(14): 35-38, 1934.
iCameron, Pan. Amer. Union B. 67: 861-869, 1933.
biCampbell, J. Ec. Ent. 25: 905-917, '32.
Campbell & Lukens, J. Ec. Ent. 24: 88-97, 1931.
iDella Libera, Rev. de Agr. Cuba, 15(6): 26-30, 1934.

- iHayashi & Ogiwara, Amer. Silk J. 51(5): 34, 36-37, 1932.
 Lockhart, Sci. Amer. 149: 120-121, '33.
 iMetcalf & Flint, Fund. of Ins. Life: 46-48, 1932.
 Morin, Rev. de Agr. Cuba 15(15): 30-32, 1934.
 Nunez Parra, Rev. de Agr. Cuba, 14(12): 79-82, 1933; 15(7): 29-32, 1934.
 Sein, P.R. Ins. R. f. 1929-1930, 121, 1931.
 biUmeya, Genetics 15: 189-204, 1930.
 Vilhena, Rev. de Agr. Cuba, 14(12): 83-98, 1933.
- Bombyx mori—Moulting**
 biWachter, Ann. Ent. Soc. Amer. 23: 381-389, 1930.
- Bombyx mori—Parasites**
 Howard, Hist. of Appl'd Ent.: 340, '30.
- Bombyx mori—Parasites—Protozoa**
 Elson, Amer. Nat. 67: 283-286, 1933.
- Bombyx mori—Rearing**
 Rico, Rev. Unidas, 47(4): 53-56, 1931.
- Bombyx mori—Reversal of heart-beat**
 Gerould, Science n.s. 73: 323-324, 1931.
- Bombyx mori—Silkworm "Jaundice"**
 Glaser & Lacaille, Amer. J. Hyg. 20: 454-464, 1934.
- *Booklouse, see Troctes divinatorius Mull.**
- Bookworms**
 Bee, Agr. Student 40: 13-14, 1933.
 Iddings, Ida. B. 179: 29, 1931.
 Fla. Grow. 38(9): 30, 1930.
 iPop. Mech. 55: 134, 1931; 60: 198, '33.
- †Boophilus annulatus (Say) (Cattle tick)***
 Arias, Rev. de Agr. Cuba, 15(6): 33-39, 1934.
 Ballester, P.R. Dept. Agr. & Com. Inf. An. f. 1934-1935, 230-237.
 Bishopp, Ohio St. Univ. Abst. Drs. Dissert. 9: 17-28, 1932.
 iBishopp, Smithson. R. f. 1933, 375, 405-406.
 iBoyd, Cal. Agr. Mo. B. 20, 494-498, 1931.
 Dennis, Science n.s. 73: 621, 1931.
 biDennis, Cal. Univ. Pub. Zool. 36: 263-298, 1932.
 Ellenberger & Chapin, USDA FB 1057, rev. 1932. 27p.
- iHall, North Amer. Vet. 15(4): 51-60, 1934.
 Hyde, USDA YB f. 1931, 132-133.
 MacKellar, Inter Amer. Conf. Agr. For. & Animal Indus Wash., D.C. Doc. Material 2: 145-148, 1930.
 MacKellar, Rev. Unidas, 47(5): 51-56, 1931.
 MacKellar, USDA YB f. 1931, 130-131.
- biMatheson, Med. Ent.: 45-46, 1932.
 Mohler, USDA FB 1625, 1930. 30p.
 Mohler, USDA R. f. 1931: 74-75.
 Page, Ark. St. Bur. Mines, Mfgs & Agr. R. 19: 18-21, 1930.
 Parr, USDA FB 1395 rev.: 42, 1933.
- iSanderson, Ins. Pests Farm, ed. 3: 509-511, 1931.
 Valdes, Rev. de Agr. Cuba, 13(12): 55, 1932.
 Van Volkenburg, P.R. Mayaguez R. f. 1933: 22, 1934.
 Williams, Amer. Vet. Assoc. J. 78: 448-450, 1931.
 Wright, J. Parasit. 19: 85, 1932.
- Boophilus annulatus australis (Australian cattle tick)**
 McIntosh, Helminth. Soc. Wash. P. 1: 22, 1934.
 Schroeder, P. Ent. Soc. Wash. 35: 23-24, 1933.
- Boophilus decoloratus**
 Bequaert, Amer. Mus. Nov. 426: 9, '30.
 iMartinaglia, Amer. Vet. Med. Assoc. J. 80: 805-806, 1932.
- Boophilus microplus**
 bDavis, Amer. J. Trop. Med. 13: 547-554, 1933.
- Borers**
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 50-58, 1934.
- Boreus, spp.**
 iCarpenter, B. Mus. Comp. Zool. 72: 268-273, 1931.
- Boriomyia ultima**
 nBanks, Psyche 37: 223-225, 1930.
- Boros unicolor**
 biSt. George, P. Ent. Soc. Wash. 33: 103-113, 1931.
- Bostrichidae**
 iVan Dyke, Kofoid, Termites and Termite Control, 330-333, 1934.

- Bot flies, see Oestridae**
- Bothynotus barberi** 133-134, **feiber** 132-135, **johnstoni** 135
nKnight, Ent. News 44: 1933.
- Botynella quinquepunctata**
Otero, Rev. de Agr. Cuba, 15(5): 48, 1934.
- Bourletiella arvalis**
Ross & Putnam, Ent. Soc. Ont. R. 64: 37, 1933.
- Bourletiella hortensis** (Fitch) (Garden springtail)*
bFolsom, J. Ec. Ent. 26: 934-935, 1933.
- Bourletiella insula**
inFolsom, Hawaiian Ent. Soc. P. 8: 73-74, 1932.
- Bovicola bovis** (Nitz.) (Cattle biting-louse)*
Caler, J. Kans. Ent. Soc. 4: 86-88, '31.
Iddings, Ida. B. 192: 31, 1932.
bShull, J. Ec. Ent. 25: 1208-1211, 1932.
- ***Boxelder aphid, see Periphyllus negundinis** Thos.
- ***Boxelder bug, see Leptocoris trivittatus** Say
- Box-tree spider mite, see Eutetranychus** latus
- Boxwood insects**
iMiddleton & Smith, USDA C. 305, 1934. 8p.
- ***Boxwood leaf miner, see Monarthropalpus buxi** Laboulb.
- Boxwood mite, see Paratetranychus** yothersii
- ***Boxwood psyllid, see Psylla buxi** L.
- Brachistella lutea**
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 243, 1933.
- Brachyacma palpigera**
Leonard & Mills, J. Ec. Ent. 24: 472-473, 1931.
- Brachycentrus sp.**
Pate, N.Y. St. Conserv. R. 21 Sup.: 138, 1931.
- Brachycercus idei**
inIde, Can. Ent. 62: 218-219, 1930.
- Brachycercus nitidus**
nTraver, Elisha Mitchell Sci. Soc. J. 47(1): 139-142, 1932.
- Brachycercus prudens**
inMcDunnough, Can. Ent. 63: 264, 1931.
- Brachycoryna lateralis**
nSchaeffer, Pan-Pac. Ent. 9: 105-106, 1933.
- Brachyelyena, hirsuta**
niHebard, Trans. Amer. Ent. Soc. 59: 31-34, 1933.
- Brachymeria euploaeae**
bClark, USDA TB 455: 25, 1934.
- Brachymeria fonscolombeii**
Marlatt, USDA Ent. R. f. 1930: 63.
ibRoberts, USDA TB 365, 1933. 22p.
Roberts, J. N.Y. Ent. Soc. 42: 262, '34.
- Brachymeria hammari**
bNettles, J. Ec. Ent. 27: 815-817, 1934.
- Brachymeria nephantidis**
nGahan, PUSNM 77(8): 5-6, 1931.
- Brachymeria sp.**
Cartwright, USDA C. 289: 9, 1933.
- Brachymetra, spp.**
niShaw, Univ. Kans. Sci. B. 21: 221-233, 1933.
- Brachypanorpa spp.**
bnCarpenter, B. Mus. Comp. Zool 72: 209-213, 1931.
- Brachyponeura lutea**
biWheeler, Colony-founding Among Ants: 93-101, 1933
- Brachypremna dispellans**
Rogers, Ecol. Monog. 3(1): 35, 1933.
- Brachypremna unicolor**
iAlexander, P.R. Dept. Agr. J. 16: 354-355, 1932.
- Brachyrhinus**
biEssig, Cal. Agr. Mo. B. 22: 397-409, '33
Keifer, Ent. Amer. 13(n.s.): 62-67, '32
- Brachyrhinus cribricollis** (Roman weevil)
iBrowne & Keifer, Cal. Agr. Mo. B. 19: 591-595, 1930.
iEssig, Hist. of Ent.: 177-180, 1931.
Essig, J. Ec. Ent. 25: 1240, 1932.
- biEssig, Cal. Agr. Mo. B. 22: 405, 1933.
Hyslop, J. Ec. Ent. 27: 562, 1934.
- biLockwood, Cal. Agr. Mo. B. 18: 773, 1929; 19: 17-39, 1930.
Mackie, Cal. Agr. Mo. B. 19: 868, 1930.
Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 22.
Wolf, Cal. Cult. 74(1): 10-11, 1930.
- Brachyrhinus ligustici** (Alfalfa snout beetle)*
Herrick, J. Ec. Ent. 26: 731-732, 1933.
Hyslop, J. Ec. Ent. 27: 562, 1934.

- Ladd, N.Y. (C) R. 46: 106, 1933.
 biPalm, Ent. Soc. Ont. R. 65: 54-58, '34.
 Strong, USDA Ent. R. f. 1934: 9.
- Brachyrhinus meridionalis**
 biEssig, Cal. Agr. Mo. B. 22: 405, 1933.
 iKeifer, Cal. Agr. Mo. B. 20: 470-472, 1931.
- Brachyrhinus monticola**
 biEssig, Cal. Agr. Mo. B. 22: 405-407, 1933.
- Brachyrhinus nodosus**
 biEssig, Cal. Agr. Mo. B. 22: 405-407, '33.
- †**Brachyrhinus ovatus** (Strawberry root weevil)*
 biBarret, Cal. Univ. Pub. Ent. 5(5): 94-96, 1930.
 Britton, Conn. B. 344: 165, 1933; B. 360: 477, 1934.
 Chadwick, Flor. Rev. 70(1805): 66, '32.
 iDownes, Can. Dept. Agr. Pam. 5, n.s. ed. 2: 3-14, 1931.
 iEssig, Hist. of Ent.: 180-183, 1931.
 biEssig, Cal. Agr. Mo. B. 22: 404, 1933.
 iEssig & Hoskins, Cal. Ext. C. 87: 83-84, 1934.
 Felt, Nat. Shade Tree Conf. P. 8: 91, 1932.
 Gardner, Mich. R. f. 1933-34: 29.
 Gibson, Can. Hort. Fr. & Truck ed. 53: 50, 1930.
 Jardine, Oreg. Bien. R. f. 1928-30: 87, 128-129.
 iLockwood, Cal. Agr. Mo. B. 18: 773, 1929; B. 19: 21, 1930.
 iMcDaniel, Mich. Quar. B. 12(3): 102-105, 1930.
 McDaniel, J. Ec. Ent. 25: 841-843, '32.
 McDaniel, Mich. Quar. B. 17: 69-70, 1934.
 Pack, Utah B. 216: 19, 1930.
 iPettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 9-10.
 Towle, Better Fruit 25(1): 8, 1930.
 iWilcox, Cal. Agr. Mo. B. 19: 227-230, 1930.
 biWilcox, Mote & Childs, Oreg. B. 330, 1934. 109p.
- Brachyrhinus rugifrons**
 biCal. Agr. Mo. B. 22: 405, 1933.
- Brachyrhinus rugosostriatus**
 biBarrett, Cal. Univ. Pub. Ent. 5(5): 96-98, 1930.
- iEssig, Hist. of Ent.: 184-187, 1931.
 biEssig, Cal. Agr. Mo. B. 22: 404, 1933.
 iLockwood, Cal. Agr. Mo. B. 18: 773, 1929; B. 19: 22, 1930.
 iSmith, Cal. B. 505: 27, 1931.
 biWilcox, Mote & Childs, Oreg. B. 330: 63-71, 1934.
- Brachyrhinus spp.**
 Jacobsen, Cal. Agr. Mo. B. 19: 830, '30.
 Jones & Hanson, Wash. Ext. B. 180: 9, 1933.
- †**Brachyrhinus sulcatus** (Black vine weevil)*
 biBarrett, Cal. Univ. Pub. Ent. 5(5): 92-94, 1930.
 Britton, Conn. B. 327: 573, 1931; B. 344: 178, 1933; B. 360: 477, 1934.
 iDownes, Can. Dept. Agr. Pam. 5, n.s. ed. 2: 14-15, 1931.
 iEssig, Hist. of Ent.: 187-192, 1931.
 biEssig, Cal. Agr. Mo. B. 22: 403, 1933.
 Felt, Nat. Shade Tree Conf. P. 8: 91, 1932.
 Felt, J. Ec. Ent. 26: 47, 1933.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 32, 1934.
 Hamilton, J. Ec. Ent. 24: 167-168, '31.
 Kennedy, Ont. Agr. Coll. & Exp. Farm R. 57: 125, 1931.
 Knull, Ent. News 43: 65, 1932.
 iLatta & Doucette, Flor. Rev. 70(1806): 11-12, 1932.
 iLockwood, Cal. Agr. Mo. B. 19: 21, '30.
 McDaniel, Mich. Sp. B. 214: 97-98, '31.
 Smith, J. Wash. Acad. Sci. 20: 185-188, 1930.
 iSmith, Cal. B. 505: 24-27, 1931.
 biSmith, USDA TB 325, 1932. 46p.
 Thompson, Ent. Soc. Ont. R. 62: 37-39, 1932.
 Twinn, Ent. Soc. Ont. R. 65: 121, 1934.
 iWhitcomb, Nat. Nurseryman. 39(11): 5-6, 1931; 40(12): 4, 1932; 40(15): 14, 1932.
 White, J. Ec. Ent. 26: 634, 1933.
 biWilcox, Mote & Childs, Oreg. B. 330: 72-76, 1934.
- Brachys aerosus rufescens**
 Knull, Ent. News 45: 209, 1934.
- Brachys fulgidus**
 iFrost, Ann. Ent. Soc. Amer. 24: 398-399, 1931.

- Brachys hintoni**, lineifrons, zeteki
nFisher, PUSNM 82(27): 37-41, 1933.
- Brachystola magna** (Lubber grasshopper)*
iFolsom, USDA FB 1688: 23-24, 1932.
- Brachystomella stachi**
Mills, Collembola of Iowa: 19, 1934.
- Brachytaosa**, *B. venturii*
nMuir, Hawaiian Ent. Soc. P. 7: 474-475, 1931.
- Brachytarsini**
nPierce, PUSNM 77(17): 29-31, 1930.
- Brachytarsoides irregularis**
nTanner, Utah Acad. Sci. P. 11: 285-286, 1934.
- Brachytarsus annulatus**
nCarr, Can. Ent. 62: 279, 1930.
- Brachytarsus franseria**
nBarrett, Pan-Pac. Ent. 7: 188, 1931.
- Bracon atricornis**
bClark, USDA TB 455: 22-23, 1934.
- Bracon mellitor**
Miller & Crisfield, J. Ec. Ent. 23: 607-608, 1930.
iSanderson, Ins. Pests Farm, ed. 3: 268, 1931.
- Braconidae**
Cushman, PUSNM 79(14): 9-16, 1932.
iJones, Better Homes & Gard. 9(2): 21, 1930.
- Bradycellus (Stenocellus) cubanus**
nDarlington, Psyche 41: 110-111, 1934.
- Bradycellus (Stenocellus) nebulosus**
Fall, Can. Ent. 62: 252, 1930.
- Bradycellus (Stenocellus) velatus**
nDarlington, Psyche 41: 111-112, 1934.
- Bradytus fulvus**
Brown, Can. Ent. 64: 200, 1932.
- Bran bug**, see *Tribolium confusum*
- Brassolidae**
Bates, Bklyn. Ent. Soc. B. 27: 155-162, 1932.
- Brathinus varicornis**
Frost, Psyche 39: 51, 1932.
- Braula coeca** (Bee louse)
iAlfonsus, Wis. Beekeeping 8: 90-92, 1932.
biAlfonsus & Braun, Ann. Ent. Soc. Amer. 24: 561-582, 1931.
Dyce & Martin, Ont. Dept. Agr. B. 377: 19-20, 1934.
iHarris, Nature Mag. 23: 271, 1934.
- Bregmatothrips iridis** (Iris thrips)*
Hyslop, J. Ec. Ent. 27: 565, 1934.
Smith, J. Ec. Ent. 26: 916, 1933.
- Bremidae**, see *Bombidae*
- Bremus**, see *Bombidae*
- Brenthia sapindella**
nBusck, Ent. Amer. n.s. 13: 183-184, 1933.
- Brenthia alboequina**
McDunnough, Can. Ent. 64: 269, 1932.
- Brenthia aphirape**
nGunder, Can. Ent. 66: 127, 1934.
- Brenthia bellona**
iSaunders, N.Y. St. Mus. Hdbk. 13: 124-131, 1932.
- Brenthia freija**
nHarper, Pan-Pac. Ent. 9: 99, 1933.
- Brenthia helena ingens**, tr.f. *martini*
nGunder, Can. Ent. 66: 127-128, 1934.
- Brenthia myrina**
iSaunders, N.Y. St. Mus. Hdbk. 13: 131-135, 1932.
- Brevicoryne brassicae** (L.) (Cabbage aphid)*
Britton, Conn. B. 344: 89, 1933.
Brooks & McDowell, Tex. C. 70: 6, '34.
iBurdette & Headlee, N.J. C. 311: 7-8, 1934.
Caesar, Ont. Dept. Agr. B. 359: 36, '31.
iCompton, Ill. C. 391: 8-9, 1932.
Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 20-22, 1933; Ext. B. 278: 19, 1934.
Dustan, Can. Dept. Agr. Ent. B. 32: 45-46, 1932.
Essig, Hist. of Ent.: 118, 1931.
Gould, Va. Truck B. 71: 818-820, 1930.
Hamilton & Gemmell, J. Ec. Ent. 27: 448, 1934.
Hutson, Mich. R. 47: 217-218, 1934.
iSanderson, Ins. Pest Farm ed. 3: 195-197, 1931.
Tissot, Fla. Grow. 38(12): 26, 1930.
Twinn, Ent. Soc. Ont. R. 64: 68, 1933.
iWatson, Fla. B. 232: 31-44, 1931.
- Bright apple redbug**, see *Lygidea mendax*
- Brillia parva**
nJohannsen, J. N.Y. Ent. Soc. 42: 351-352, 1934.
- Bristletail**, see *Lepisma saccharalis*
- *Bristly cutworm, see *Polia renigera* Steph.

- *Bristly rose slug, *see* *Cladius isomerus* Nort.
- Brittonella, B. chardoni
nFisher, PUSNM 80(22): 7-9, 1932.
- Broad horned flour beetle, *see* *Gnathocercus cornutus*
- *Broad mite, *see* *Tarsonemus latus* Banks
- *Broad-necked root borer, *see* *Prionus laticollis* Drury
- Broad-nosed grain weevil, *see* *Caulophilus latinasus*
- *Broadbean weevil, *see* *Bruchus rufimanus* Boh.
- Brochymena pilatei
nVan Duzee, Pan-Pac. Ent. 10: 22, 1934.
- Brochymena quadripustulata
biBaker, Can. J. Res. 4: 181-182, 1931.
bEasterling, Ohio J. Sci. 34: 136, 1934.
- Bromiades meridionalis
nFisher, PUSNM 77(19): 14-15, 1931.
- Bronze apple tree weevil, *see* *Magdalis aenescens*
- Bronze copper, *see* *Heodes thoë*
- *Bronzed birch borer, *see* *Agrilus anxius*
- Broomcorn insects
Larimer, USDA FB 1631: 36, 1930.
- Brown apricot scale, *see* *Lecanium corni*
- Brown borer, *see* *Alucita sacchari*
- Brown cutworm, *see* *Lampra cupida*
- *Brown dog tick, *see* *Rhipicephalus sanguinus* Latr.
- Brown goliath beetle, *see* *Goliathus giganteus*
- Brown headed spuce fly, *see* *Pachynematus ocreatus*
- Brown lacewing flies, *see* *Hemerobius* spp.
- Brown mite, *see* *Paratetranychus yothersi*
- Brown olive scale, *see* *Saissetia oleae*
- *Brown salt-marsh mosquito, *see* *Aedes cantator* Coq.
- Brown soft scale, *see* *Lecanium coryli*
- *Brown-tail moth, *see* *Nygmia phaeorrhoea* Donovan.
- *Bruce's spanworm, *see* *Rachela bruceata*
- Bruchidae
Bridwell, P. Ent. Soc. Wash. 33: 37-42, 1931.
Bridwell, J. N.Y. Bot. Gard. 33: 105-109, 1932.
- Bridwell, P. Ent. Soc. Wash. 34: 100-106, 1932.
- Bruchobius magnus
nRohwer, P. Ent. Soc. Wash. 36: 43-44, 1934.
- Bruchophagus funebris, *see* *Bruchophagus gibbus*
- Bruchophagus gibbus (Clover seed chalcid)*
Cardon, Utah B. 235: 57-58, 1932; B. 250: 50, 1934.
Cooley, Mont. B. 238: 11-12, 1930.
iSorenson, Utah B. 218, 1930, 33p.
biSorenson, Utah C. 98: 6-9, 1932.
Sorenson, Utah Acad. Sci. P. 11: 241-244, 1934.
Swezey, Hawaiian Ent. Soc. P. 7: 370, 1931.
iThone, Sci. News Letter 24: 111, 1933.
iWildermuth, USDA FB 1642, 1931, 14p.
- Bruchus—Quebec
Ouellet, Nat. Can. 61: 65-68, 1934.
- Bruchus amicus
Swezey, Hawaiian Ent. Soc. P. 7: 390, 1931.
- Bruchus brachialis Fahraeus (Vetch bruchid)*
bBridwell & Bottimer, J. Agr. Res. 46: 739-751, 1933.
Hyslop, J. Ec. Ent. 27: 562, 1934.
- Bruchus holosericeus
Bridwell, P. Ent. Soc. Wash. 36: 265, 1934.
- Bruchus languidus
Bisset, USDA Off. Rec. 10: 248, 1931.
- Bruchus lentis
iBack, USDA FB 1275: 14, 1930.
- Bruchus limbatus
Bryan, Hawaiian Ent. Soc. P. 7: 380, 1931.
Swezey, Hawaiian Ent. Soc. P. 7: 381, 1931.
- Bruchus obtectus, *see* *Acanthoscelides obtectus*
- †Bruchus pisorum (L.) (Pea weevil)*
iBack, USDA FB 1275: 7-10, 1930.
biBrindley, J. Ec. Ent. 26: 1058-1062, '33.
Brindley, Ida. Agr. Coll. News Letter 17(3): 1, 1933.
iCaesar, Ont. Dept. Agr. B. 359: 55-56, 1931.

- †Bruchus pisorum (L.) Cont'd**
 Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 42, 1933.
 iDustan, Can. Dept. Agr. Ent. B. 32: 63, 1932.
 Gilbert & Popenoe, USDA FB 1371 rev.: 30-31, 1930: 30, 1934.
 Iddings, Ida. B. 179: 30, 1931; B. 197: 39-40, 1933; B. 205: 40-41, 1934.
 iLarson, Oreg. C. 90, 1931, 12p.
 Larson, USDA YB f. 1932: 287-290.
 biLarson, Brindley & Hinman, J. Ec. Ent. 26: 1063-1068, 1933.
 bLarson & Hinman, J. Ec. Ent. 25: 971-976, 1932.
 iMcDaniel, Mich. Quar. B. 16: 170, '34.
 Marlatt, USDA Ent. R. f. 1931: 66-68; R. f. 1932: 28; R. f. 1933: 32-33.
 Ruffin, South. Cult. 89(10): 11, 1931.
 Schoth, Oreg. B. 286: 22-23, 1931.
 Stiles, Okla. Ext. News 13(9): 2, 1932.
 Strong, USDA Ent. R. f. 1934: 19.
 biWakeland, J. Ec. Ent. 27: 534-542, 981-986, 1934.
 Watson, Fla. Grow. 40(11): 23, 1932.
 bWhitehead, J. Ec. Ent. 23: 398-401, 1930.
 Wicks, Cal. Dept. Agr. Sp. Pub. 115: 157, 1932.
Bruchus quadrimaculatus, *see* **Callosobruchus maculatus**
Bruchus rufimanus Boh. (Broadbean weevil)*
 iBack, USDA FB 1275: 15-17, 1930.
Bruchus sallaei
 Swezey, Hawaiian Ent. Soc. P. 7: 356, 365, 1931.
Brumus blumi
 nNunenmacher, Pan-Pac. Ent. 10: 114, 1934.
Bryania
 nAldrich, Hawaiian Ent. Soc. P. 7: 369-397, 1931.
Bryania bipunctata
 nAldrich, Hawaiian Ent. Soc. P. 7: 397, 1931.
†Bryobia praetiosa Koch (Clover mite)*
 Britton, Conn. B. 327: 574-575, 1931.
 Dean, Kans. St. Hort. Soc. Bien. R. 42: 48, 1934.
 Dell, Kans. St. Hort. Soc. Bien. R. 42: 50-53, 1934.
 iEssig & Hoskins, Cal. Ext. C. 87: 7, '34.
 Greene, Cal. Agr. Mo. B. 21: 265-266, 1932.
 Haeghele, Ida. St. Hort. Assoc. Conv. 38: 80-81, 1933.
 Hamilton, N.J. C. 334: 2, 1934.
 Hutchison, Cal. R. f. 1932-1934: 60.
 Moulton, Cal. Agr. Mo. B. 20: 750, '32.
 Newcomer, Oreg. St. Hort. Soc. R. 22: 41-45, 1930; 23: 52-56, 1932.
 iNewcomer, USDA C. 270: 15-19, 1933.
 iParks & Jones, Ohio Ext. B. 97: 36-37, 1930; rev.: 30, 1933.
 iPettit & Hutson, Mich. C. B. 137: 37, 1931.
 iQuaintance & Siegler, USDA FB 1270 rev.: 66-67, 1931.
 Ross & Putman, Ent. Soc. Ont. R. 64: 36, 1933.
 Smith, J. Kans. Ent. Soc. 5: 85, 1932.
 Spuler, Wash. B. 245: 32, 1930.
 Webster, Wash. St. Hort. Assoc. P. 27: 18, 1931.
 Webster, Better Fruit 26(8): 10, 1932.
Bubaloceras pritchardiae
 nSwezey, Hawaiian Ent. Soc. P. 8: 303, 1933.
Bubekia fallax
 inGahan, USDA Misc. Pub. 174: 114-116, 1933.
Bucculatrix—Key
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 145, 1930.
Bucculatrix canadensisella Chamb. (Birch skeletonizer)*
 Balch, For. Chron. 7: 65, 1931.
 Britton, Conn. B. 344: 85, 1933.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 17-18, 1934.
 iMcDaniel, Mich. Sp. B. 243: 40-42, '33.
 Orr, Minn. Hort. 60: 221, 1932.
 iSimpson, For. Chron. 8: 89-92, 1932.
 Twinn, Que. Soc. Prot. Pl. R. 23/24: 161, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 76, 1933; R. 65: 126, 1934.
Bucculatrix fatigans
 nBraun, Trans. Amer. Ent. Soc. 56: 15, 1930.
Bucculatrix pomifoliella
 iQuaintance & Siegler, USDA FB 1270 rev.: 62-63, 1931.

- Bucculatrix thurberiella** Busck (Cotton leaf perforator)*
 Essig & Hoskins, Cal. Ext. C. 87: 46-47, 1934.
 iFolsom, USDA FB 1688: 14-15, 1932.
 Marlatt, USDA Ent. R. f. 1930: 41; R. f. 1931: 49-50; R. f. 1932: 23.
- Bucentes ceres, intrudens**
 nCurran, Amer. Mus. Nov. 534: 14-15, 1932.
- Bucephalomys**
 Hockett, J. N.Y. Ent. Soc. 40: 49-50.
- Buckeye butterfly**, *see* *Junonia coenia*
- Bud mite**, *see* *Pediculopsis graminum*
- Bud moth**, *see* *Spilonota ocellana*
- Budworm of corn**, *see* *Diabrotica duodecimpunctata*
- Buena scimitra**
 Grisct, Ecol. Soc. Amer. B. 12(2): 2, '31.
- Buffalo bug**, *see* *Anthrenus scrophulariae*
- *Buffalo treehopper**, *see* *Ceresa bubalus* F.
- Bufo marinus and insects**
 iPemberton, Hawaiian Pl. Rec. 38: 186-192, 1934.
- Building pile insects**
 Turner, Engin. News-Rec. 111: 160, 1933.
- Bulb pests**
 Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 19-22, 1930.
 Doucette, Oreg. St. Hort. Soc. R. 22: 89, 1930.
 Linz, Seed World 34(13): 45, 1933.
 Lyne, Cal. Dept. Agr. Sp. Pub. 115: 151, 1932.
 Marlatt, USDA Ent. R. f. 1931: 54-56; R. f. 1933: 23.
 bSchopp & Doucette, J. Ec. Ent. 25: 1016-1019, 1932.
 Sheaffer, Ind. Dept. Conserv. Div. Ent. Pub. 103: 69-73, 1930.
- *Bulb mite**, *see* *Rhizoglyphus hyacinthi* Bdv.
- *Bulb scale mite**, *see* *Tarsonemus approximatus narcissi* Ewing
- Bulb sterilization**
 Koerner, Minn. Hort. 61: 172, 1933.
- *Bumble flower beetle**, *see* *Euphoria inda*
- Bumblebee hawk moth**, *see* *Haemorrhagia thysbe*
- Bungalotis spp.**
 inBell, Bklyn. Ent. Soc. B. 29: 93, 1934.
 Williams & Bell, Trans. Amer. Ent. Soc. 60: 129-130, 1934.
- Bunostoma, B. flavifacies**
 inMalloch, Bernice P. Bishop Mus. B. 98: 218-220, 1932.
- Buprestidae**
 Cartwright, Ent. News 42: 269-270, 1931.
 Chamberlin, J. Ec. Ent. 25: 833-836, 1932.
 Van Dyke, Ent. News 45: 61-66, 89-91, 1934.
- Buprestis apicans**
 iBeal, USDA C. 226, 1932, 18p.
- Buprestis aurentata**
 iChamberlin, J. Ec. Ent. 25: 833-834, 1932.
- Buprestis contortae**, *see* *Buprestis murrayanae*
- Buprestis lineata**
 Knull, Ent. News 43: 45, 1932.
- Buprestis murrayanae**
 nHopping, Pan-Pac. Ent. 9: 84-85, 1933.
 Hopping, Pan-Pac. Ent. 10: 174, 1934.
- Buprestis rufipes**
 Knull, Ent. News 45: 208, 1934.
 Smyth, J. Kans. Ent. Soc. 7: 111, 1934.
- Burchellia**
 nRehn, P. Acad. Nat. Sci. Phila. 84: 414-415, 1933.
- Burdock borer**, *see* *Papaipema cataphracta*
- Burrowing insects**
 bBryson, J. Kans. Ent. Soc. 6: 81-90, '33.
- Bursaphis, B. solitaria**
 nBaker, Mex. Univ. Nac. Inst. Biol. Anal. 5: 217, 1934.
- Busseola fusca—Cryolite**
 biDeLong, Ohio J. Sci. 34: 194-195, 1934.
- Butterflies**
 iBartlett, Country Home 54(8): 26, 40-41, 1930.
 Bates, Ent. News 45: 166-169, 1934.
 iBeard, Amer. Boys' Bk. Bugs: 54-65, 1932.
 Brower, Ent. News 41: 286-289, 1930.
 Clark, Pop. Sci. Month. 117(5): 52, '30.
 Clark, P. Ent. Soc. Wash. 32: 80-82, 1930.
 iClark, U.S. Nat. Mus. B. 157, 1932. 337p.

Butterflies *Cont'd*

- Clark, P. Biol. Soc. Wash. 47: 177-180, 1934.
 iCoxey, Mid-Pac. Mag. 47: 25-28, 1934.
 iEvans, Ladies' Home J. 51(8): 12-13, 71, 1934.
 iFender, Pan-Pac. Ent. 7: 179-187, '31.
 inGarth. So. Cal. Acad. Sci. B. 33: 131-136, 1934.
 Gunder, So. Cal. Acad. Sci. B. 29: 39-95, 1930; B. 30: 45-48, 1931.
 nGunder, Pan-Pac. Ent. 8: 123-127, '32.
 Harper, Pan-Pac. Ent. 9: 97-99, 1933.
 Haskins, Ent. News 42: 201-202, 1931.
 iHolland, Butterfly Book, rev. ed., 1931, 424p.
 Montgomery, Ent. News 42: 109-111, 1931.
 bMontgomery, Ind. Acad. Sci. P. 40: 351-355, 1931.
 Montgomery, Ent. News 43: 182, 1932.
 Pollard, J. N.Y. Ent. Soc. 39: 167-170, 1931.
 biSaunders, N.Y. St. Mus. Hdbk. 13, 1932. 270p.
 Schnack, Life of the Butterfly, 1932. 8p.
 iSmith, Nature Mag. 22: 86-87, 1933.
 Wright, San. Diego Soc. Nat. Hist. Trans. 6(1), 1930. 40p.
Butterflies—Arctic
 iClark, Smithsonian, R. f. 1934: 267-296.
Butterflies—Bisexual
 iSci. News Letter 24: 3, 1933.
Butterflies—Cannibalism
 Clark, Sci. Month. 33: 173-174, 1931.
Butterflies—Classification
 Holland, Carnegie Mus. Ann. 20(1): 39-55, 1930.
 Holland, Carnegie Mus. Ann. 20: 255-265, 1931.
Butterflies—Collection and preservation
 iDunn, Pop. Mech. 53: 410-413, 1930.
 Forbes, Rur. N.Y. 101: 464, 1932.
 iGunder, Bklyn. Ent. Soc. B. 25: 225, 1930.
 iWhite, Nature Mag. 18: 162, 1931.
Butterflies—Collections—Gunn
 Van Duzee, Pan-Pac. Ent. 7: 72, 1930.
Butterflies—Collections—Mead
 Brown, J. N.Y. Ent. Soc. 42: 155-162, 1934.
Butterflies—Collections—Weeks
 Weeks, Ent. News 43: 48, 1932.

Butterflies—Coloration, significance

- iSaunders, N.Y. St. Mus. Hdbk. 13: 27-31, 1932.
Butterflies—Diurnal—Night flight
 Rau, Ent. News 41: 24-25, 1931.
Butterflies—Eggs
 iClarke, Sci. News Letter 21: 373, 1932.
Butterflies—Farming
 Graham, Sci. Amer. 146: 366-367, '32.
 iRaleigh, Bureau Farm. 5(10): 5, 26, '30.
 Taylor, Sci. Amer. 87: 252, 1931.
Butterflies—Golf balls and chemicals
 A.E.B., Sci. Amer. 147: 105, 1932.
Butterflies—Habitats
 iSaunders, N.Y. St. Mus. Hdbk. 13: 41-49, 1932.
Butterflies—Migration
 Clark, Sci. Month. 32: 150-155, 1931.
 Engelhardt, Bklyn. Ent. Soc. B. 29: 16, 1934.
 Haskins, Ent. News 44: 255-257, 1933.
 bO'Byrne, Bklyn. Ent. Soc. B. 27: 185-188, 1932.
Butterflies—Night flight of
 O'Byrne, Ent. News 41: 20, 1930.
 bO'Byrne, Ent. News 43: 207-209, 1932.
 Tietz, Ent. News 43: 134, 1932.
Butterflies—Rare
 Cottle, Pan-Pac. Ent. 8: 1-4, 1931.
Butterflies—Relation to world
 Clark, Sci. Month. 30: 536-537, 1930.
Butterflies—Wing prints
 Hutchins, Can. Ent. 62: 215-216, 1930.
Butterflies—Wings
 Clark, Science n.s. 72(1858 sup.): xi, 1930.
 iClark, Sci. News Letter 21: 225, 1932.
 iWolff, Lit. Dig. 105(1): 26, 1930.
 Pop. Mech. 54: 553, 1930.
 Pop. Mech. 55: 393, 1931.
 iPop. Mech. 60: 164, 1933.
 iSci. News Letter 18: 103, 1930.
Butterflies and temperature
 Clark, Sci. News Letter 22: 229, 1932.
Bythoscopus robustus
 Swezey, Hawaiian Ent. Soc. P. 8: 381, 1934.
Byturus tomentosus
 Baker, Wash. St. Hort. Soc. P. 26: 208-209, 1930.
 bKearns & Walton, J. Pom. 11: 39-52, 77-80, 1933.

- bSteer, J. Pom. 10: 18, 1932.
 Steer, J. Pom. 11: 19-38, 1933.
- Byturus unicolor** Say (*Raspberry fruit-worm*)*
 Baker, Wash. St. Hort. Soc. P. 26: 208, 1930.
 iBourne, Mass. Ext. Leaf. 48: 14, 1933.
 Britton, Conn. B. 344: 154-155, 1933.
 Cacsar, Ont. B. 355: 29, 1930.
 Crosby, Rankin & Mills, N.Y. (C.) Ext. B. 306: 6-7, 1934.
 Crumb, P. W. Wash. Hort. Assoc. 25: 13-15, 1934.
 Dean, Kans. St. Hort. Soc. Bien. R. 40: 152, 1930.
 Hedrick, N.Y. (Gen.) R. 50: 54, 1931.
 iHouser, Ohio B. 454: 67-69, 1930.
 Jones & Hanson, Wash. Ext. B. 180: 5, 1933.
 bKearns & Walton, J. Pom. 11: 53-55, 1933.
 Loree, Mich. C. B. 152: 27, 1934.
 iPettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 6-7.
 iPettit, Mich. Ent. R. f. 1930: 10.
 iPettit, Mich. St. Bd. Agr. R. 69: 212, 1930.
 Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(4): 4, 1930.
 Wildman, Science 75: 268-269, 1932.
- ***Cabbage aphid**, *see* *Brevicoryne brassicae* L.
- Cabbage butterfly**, *see* *Pieris rapae*
- Cabbage curculio**, *see* *Ceutorhynchus rapae* Gyll.
- Cabbage flea beetle**, *see* *Phyllotreta albionica*
- Cabbage hair worm**, *see* *Mermis albicans*
- Cabbage insects**
 iAmos, Purdue Agr. 26: 131, 142, 1932.
 Bechtel, Iowa St. Hort. Soc. P. 67: 223-224, 1933.
 Brooks & McDowell, Tex. C. 70: 6, '34.
 iCaesar, Ont. Dept. Agr. B. 359: 30-36, 1931.
 Caffrey, Md. Agr. Soc. R. 19: 273-274, 1934.
 iCompton, Ill. C. 391: 3-12, 1932.
 Davis, Ind. Ext. B. 186: 5-6, 1932.
 iDustan, Can. Dept. Agr. B. n.s. 161: 41-49, 1932.
- iGilbert & Popenoe, USDA FB 1371, rev.: 16-19, 1934.
 Hamilton & Gemmell, J. Ec. Ent. 27: 451-452, 1934.
 Hutson, Mich. Quar. B. 16: 100-101, '33.
 Langford, Peninsula Hort. Soc. Trans. f. 1931, 78.
 iMcC Campbell, Col. Ext. Ser. C. 79-A, 1934, 8p.
 McC Campbell, J. Col.-Wyo. Acad. Sci. 1(6): 73, 1934.
 Marlatt, USDA Ent. R. f. 1933: 21-22.
 Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 2(7): 1-2, 1930.
 Sestier, Iowa St. Hort. Soc. Trans. 69: 267, 1934.
 iWilkinson, Conn. (Storrs). Ext. B. 196: 15-16, 1933.
- ***Cabbage looper**, *see* *Autographa brassicae* Riley
- Cabbage maggot**, *see* *Hylemyia brassicae*
- Cabbage shoot weevil**, *see* *Ceutorhynchus assimilis*
- Cabbage snake**, *see* *Mermis albicans*
- ***Cabbage webworm**, *see* *Hellula undalis*
- Cabbage worm**, *see* *Ascia rapae*
- Cacama crepitans**
 Beamer, J. N.Y. Ent. Soc. 38: 302, '30.
- Cacama valvata**
 Beamer, J. N.Y. Ent. Soc. 38: 292-294, 1930.
 Davis, J. N.Y. Ent. Soc. 38: 55, 1930.
- Cacao insects**
 Farley, Rev. de Agr. Cuba 12(6): 33-34, 1930.
 iGirola, La Hacienda, 29: 177, 1934.
 Wester, Rev. de Agr. Cuba 13(10): 35-36, 1932.
 ibWolcott, Ec. Ent. of West Indies, 340-356, 1933.
- Cellus oecanthi**
 Smith, Cal. B. 505: 13, 1931.
- Cacoceria, C. cressoni**
 nHull, Trans. Amer. Ent. Soc. 56: 146-148, 1930.
- ‡**Cacoecia argyrospila** (Walk.) (*Fruit tree leaf roller*)*
 Braman, Mich. St. Hort. Soc. R. 60: 35-38, 1931.
 Britton, Conn. B. 338: 593, 1932.
 Caesar, Can. Hort. Fr. & Truck ed. 53: 58, 1930.

†*Cacoecia argyrospila* (Walk.) *Cont'd*

- iCaesar, Ont. B. 356: 19-21, 1930.
 Chambers, Wis. Hort. 20: 341, 1930.
 Chambers, Wis. Dept. Agr. B. 115: 54, 1931.
 Chapman, Conn. Pom. Soc. P. 44: 89-93, 1934.
 Collins & Nixon, N.Y. (Gen.) B. 583, 1930, 32p.
 Evans, Conn. Pom. Soc. P. 43: 63-64, 1933.
 iGardner, Mich. St. Bd. Agr. R. 69: 210-211, 1930; R. 71: 226-227, 1932.
 Garman, Conn. Pom. Soc. P. 44: 85-86, 1934.
 iGranovsky, Minn. Hort. 59: 60-61, '31.
 Hall, Ent. Soc. Ont. R. 60: 137, 1930; 64: 22, 1933.
 iHarman, Fruits & Gardens 28(2): 6-7, 1930.
 Harman, N.Y. St. Col. Wkly. News Letter May 11, 1931: 33.
 iHutson, Mich. Sp. B. 244: 10-12, 1933.
 iKnull, J. Ec. Ent. 25: 1199-1201, 1932.
 biLockwood, Cal. Agr. Mo. B. 22: 331-333, 1933.
 iNewcomer, USDA C. 270: 13-15, 1933.
 Parrott, N.Y. St. Hort. Soc. P. 76: 27-28, 1931.
 Pettit, Mich. St. Bd. Agr. R. 69: 210-211, 1930.
 Pettit, Mich. Ent. R. f. 1930: 8-9.
 iPettit, Mich. St. Bd. Agr. R. 70: 258-259, 1931.
 iPettit, Mich. Ent. R. f. 1931: 7-8.
 Pettit & Hutson, Ent. Soc. Ont. R. 61: 34, 1931.
 iPettit & Hutson, Mich. C. B. 137: 23-25, 1931.
 iQuaintance & Siegler, USDA FB 1270, rev., 17-19, 1931.
 Regan, Wash. St. Hort. Assoc. P. 25: 135, 1929.
 biRose et al, USDA Misc. Pub. 168: 35, 1933.
 Ross, Can. Dept. Agr. B. 129: 40, 1930.
 iRussell, Wis. B. 410: 49-51, 1930.
 iSanderson, Ins. Pests Farm, ed. 3: 355-356, 1931.
 Tolles, J. Ec. Ent. 24: 692-694, 1931.
 Tolles, Mich. St. Hort. Soc. R. 60: 141-144, 1931.

Cacoecia cerasivorana (Fitch) (Ugly-nest caterpillar)*

- iWalker, Flow. Grow. 19(9): 405, 1932.
Cacoecia conflictana
 Hyslop, J. Ec. Ent. 27: 560, 1934.
Cacoecia fractivittana
 Hall, Ent. Soc. Ont. R. 64: 22, 1933.
Cacoecia fumiferana (Clem.) (Spruce budworm)*
 Bailey, Cult. Conifers N. A. 347-348, 1933.
 Britton, Conn. B. 344: 162-163, 1933.
 Chambers, Wis. Dept. Agr. B. 115: 53, 1931.
 iChambers & Thompson, Wis. Dept. Agr. B. 123: 42-43, 1931; B. 145: 65-66, 1933.
 Evenden, Northw. Sci. 4: 54, 1930.
 iMathers, For. Chron. 8(3): 154-157, 1932.
 iMathers, B. C. Ent. Soc. P. 31: 22-27, 1934.
 iPeirson, Field Book of Destruct. For. Ins. ed 2: 6, 1932.
 iSwaine, Illus. Can. For. & Outdoors 26: 708, 1930.
 iSwaine, Can. Dept. Agr. Div. For. Ins. Sp. C. July 1930, 2p.; Sp. C. 1931, 3p.
 Swaine, For. Chron. 9(4): 9-10, 1933.
 Twinn, Que. Soc. Prot. Pl. R. 23/24: 160, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 74, 1933; R. 65: 123, 1934.
 J. Ec. Ent. 23: 652, 1930.
Cacoecia parallela
 iMcDaniel, Mich. Sp. B. 214: 75-76, 1931.
Cacoecia persicana
 biGilliatt, Sci. Agr. 10: 631-653, 1930.
 Pickett, N. S. Fr. Grow. Assoc. R. 71: 39-40, 1934.
Cacoecia purpurana
 Hall, Ent. Soc. Ont. R. 64: 22, 1933.
Cacoecia rosaceana (Harr.) (Oblique-banded leaf roller)*
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 20-21, 1934.
 Hall, Ent. Soc. Ont. R. 64: 22, 1933.
 biLockwood, Cal. Agr. Mo. B. 22: 331-333, 1933.
 McDaniel, Mich. Sp. B. 214: 73-75, 1931.

- Cacoecia rosana**
 Britton, Conn. B. 344: 152, 1933.
- Cacoecia semiferana** (Box elder leaf roller)
 Hall, Ent. Soc. Ont. R. 60: 137-139, 1930; R. 64: 22, 1933.
- Cacoecia spp.**
 Maltais, Que. Pom. & Fr. Grow. Soc. R. 40: 101-102, 1933.
- Cacomomyia**, *see* **Cacocerina**.
- Cactoblastis cactorum**
 Rawson, Sci. Amer. 144: 392-393, 1931.
 Tillyard, Pac. Sci. Cong. 5, P. 5: 3552-3554, 1934.
- Cactobrosia spp.**
 Mortensen, Cactus & Succul. Soc. Amer. J. 1: 172-173, 1930.
- Cactus borer**
 Houghton, Cactus & Succul. Soc. Amer. J. 2: 298, 1930.
- Cactus insects**
 Bailey, Ent. News 44: 14, 1933.
 Fisher, P. Ent. Soc. Wash. 33: 197-201, 1931.
 bHamlin, Ann. Ent. Soc. Amer. 25: 89-120, 1932.
 Houghton, Cactus & Succul. Soc. Amer. J. 2: 298, 1930.
 Jacob, Science 74, n.s. (1912, Sup.): 11, 1931.
 iMortensen, Cactus & Succul. Soc. Amer. J. 1: 171-173, 1930.
- *Cactus scale**, *see* **Diaspis echinocacti**
- Cadaver—Fauna**
 J. Amer. Med. Assoc. 100: 520, 1933.
- Caddis flies**, *see* **Trichoptera**
- *Cadelle**, *see* **Tenebroides mauritanicus** L.
- Cadrema pusio**, *see* **Hippelates pusio**
- Caecidotea tridentata**
 biHoffman, J. Kans. Ent. Soc. 6: 26-32, 1933.
- Caecilius analis**
 inBanks, Hawaiian Ent. Soc. P. 7: 437, 1931.
 Williams, Hawaiian Ent. Soc. P. 7: 371-372, 1931.
- Caecilius spp.**
 Chapman, J. N.Y. Ent. Soc. 38: 319-331, 1930.
- Caeninae—North American**
 McDunnough, Can. Ent. 63: 254-268, 1931.
- Caenis spp.**
 McDunnough, Can. Ent. 63: 254-268, 1931.
- Cahita nigripes**
 inHebard, Trans. Amer. Ent. Soc. 59: 116, 1933.
- Calagenia, C. chloranthæ hermosa**
 nBanks, Amer. Acad. Arts and Sci. P. 69(1): 72-73, 1934.
- Calais patricia**
 iBruner, Rev. de Agr. Cuba 15(6): 42-43, 1934.
- Calamacris mexicana**
 Hebard, Trans. Amer. Ent. Soc. 57: 123-124, 1931.
- Calamia basistriga**
 nMcDunnough, Can. Ent. 65: 203-204, 1933.
- Calandra**, *see* **Sitophilus**
- Calaphis annulata, betulaecolens, betulella**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 900-902, 1931.
- Calaphis castaneoides**
 Bartholomew, Ann. Ent. Soc. Amer. 25: 726, 1932.
 iTissot, Fla. Ent. 16: 7-8, 1932.
- Calaphis nanae**
 iTissot, Fla. Ent. 16: 8-10, 1932.
- Calcaritermes—U.S.**
 Snyder, P. Ent. Soc. Wash. 35: 67-69, 1933.
- Calendra—Key**
 iSatterthwait, Ann. Ent. Soc. Amer. 24: 143-169, 1931.
- Calendra aequalis**
 iSatterthwait, Ann. Ent. Soc. Amer. 24: 148, 1931.
 iSatterthwait, USDA FB 1003, rev.: 9-10, 1932.
- Calendra callosus**
 Cartwright, S. C. R. 43: 70-71, 1930;
 R. 44: 66, 1931; R. 45: 67-68, 1932.
 iSatterthwait, Ann. Ent. Soc. Amer. 24: 152, 155, 1931.
 iSatterthwait, USDA FB 1003 rev.: 13-14, 1932.
- Calendra costicollis callosipennis**
 iSatterthwait, Ann. Ent. Soc. Amer. 24: 151-152, 1931.
- Calendra costipennis**
 Satterthwait, Ann. Ent. Soc. Amer. 24: 151, 1931.

- Calendra destructor (Destructive billbug)**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 154, 1931.
 iSatterthwait, USDA FB 1003, rev.: 16,
 1932.
- Calendra dietrichi**
 nSatterthwait, Ent. News, 44: 210-211,
 1933.
- Calendra discolor (Tule billbug)**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 149, 1931.
 Satterthwait, USDA FB 1003, rev.:
 14-15, 1932.
- Calendra inaequalis**
 Satterthwait, Ann. Ent. Soc. Amer. 24:
 147-148, 1931.
- Calendra incongrua**
 Satterthwait, Ann. Ent. Soc. Amer. 24:
 157-158, 1931.
- Calendra lucedalensis**
 nSatterthwait, Ent. News, 44: 212-213,
 1933.
- Calendra ludoviciana**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 150, 1931.
- Calendra maidis**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 152, 1931.
 iSatterthwait, USDA FB 1003, rev.:
 10-13, 1932.
- Calendra melanocephala**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 156, 1931.
- Calendra minima**
 i Satterthwait, Ann. Ent. Soc. Amer.
 24: 153, 1931.
 Satterthwait, USDA FB 1003, rev.: 18, '32.
- Calendra oblita (Oblite billbug)**
 Satterthwait, Ann. Ent. Soc. Amer. 24:
 158, 1931.
 Satterthwait, USDA FB 1003 rev.:
 18-19, 1932.
- Calendra parvula**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 153, 1931.
 iSatterthwait, USDA FB 1003, rev.:
 6-7, 1932.
- Calendra pertinax**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 149, 1931.
 iSatterthwait, USDA FB 1003, rev.:
 15-16, 1932.
- Calendra phoeniciensis**
 Satterthwait, Ann. Ent. Soc. Amer. 24:
 157, 1931.
 Satterthwait, USDA FB 1003, rev.:
 17-18, 1932.
- Calendra pontederiae**
 Satterthwait, Ann. Ent. Soc. Amer. 24:
 156, 1931.
- Calendra retusa**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 154, 1931.
- Calendra robusta**
 Satterthwait, Ann. Ent. Soc. Amer. 24:
 150-151, 1931.
- Calendra scoparia**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 155, 1931.
- Calendra (Sphenophorus) sequoiae**
 nVan Dyke, Pan-Pac. Ent. 6: 165, 1930.
- Calendra setiger**
 Satterthwait, Ann. Ent. Soc. Amer. 24:
 149-150, 1931.
 bSatterthwait, J. Ec. Ent. 26: 210-217,
 1933.
- Calendra spp. (Corn billbugs)***
 Cartwright, S. C. R. 46: 72-74, 1933.
 Grimes, Kans. Bien. R. 7: 103, 1934.
 iMilord, Rev. de Agr. Cuba 12(4): 38,
 1930.
 iWalton, USDA FB 835 rev.: 15, 1931.
 iWatson, Fla. B 232: 57, 1931.
- Calendra venatus**
 iSatterthwait, Ann. Ent. Soc. Amer. 24:
 156-157, 1931.
 iSatterthwait, USDA FB 1003, rev.:
 16-17, 1932.
- Calendra zeae**
 Satterthwait, Ann. Ent. Soc. Amer. 24:
 154-155, 1931.
 Satterthwait, USDA FB 1003, rev.:
 7-8, 1932.
- Calephelis nemesis**
 iComstock & Dammers, South. Cal.
 Acad. Sci. B. 31: 12-15, 1932.
- Calephelis wrighti**
 nHolland, Carnegie Mus. Ann. 20(1):
 5-6, 1932.
- Cales noacki**
 Dozier, P. Ent. Soc. Wash. 35: 98, 1933.
- *Calico scale, *see* *Lecanium cerasorum*
 California eye gnat, *see* *Hippelates pusio*.

- California grape root worm, *see* *Adoxus obscurus*.
- *California harvester ant, *see* *Pogonomyrmex californicus* Buckl.
- California lead cable borer, *see* *Scobicia declivis*.
- California oak moth, *see* *Phryganidia californica*.
- *California oak worm, *see* *Phryganidia californica* Pack.
- *California prionus, *see* *Prionus californicus* Mots.
- *California red scale, *see* *Chrysomphalus aurantii* Mask.
- California salmon fly, *see* *Pteronarcys californica*.
- *California salt-marsh mosquito, *see* *Aedes squamiger* Coq.
- *California tent caterpillar, *see* *Malacosoma californica* Pack.
- California tortoise shell butterfly, *see* *Aglais californica*.
- Califortalis*
nCurran, Fam. & Genera of North Amer. Diptera: 284, 1934.
- Caligo idomeneus*
iSiepmann, Bklyn. Ent. Soc. B. 26: 267, 1931.
- Caliroa aethips* (F.) (Rose sawfly)*
iChambers & Thompson, Wis. Dept. Agr. B. 145: 71, 1933.
iGibson, Farmer's Advoc. 65: 875, 1930.
iMunro & Riddle, N.D. C. 42, rev.: 50-51, 1933.
- Caliroa cerasi*, *see* *Eriocampoides limacina*.
- Calisto herophile*
nBates, Bost. Soc. Nat. Hist. Occ. Pap. 8: 136, 1934.
- Calisto pulchella*
Holloway, Facts about Sugar 28: 218, 1933.
Leonard, Rev. Agr. P. R. 25: 62-63, 1930.
- Calisto sibylla*
nBates, Bost. Soc. Nat. Hist. Occ. Pap. 8: 136, 1934.
- Calliades phrynicus, zeutus*
iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 26-27, 1934.
- Callicerias boreale, concinna, pacifica*
nWhittaker, P. Ent. Soc. Wash. 32: 70-72, 129-130, 1930.
- Calliclytus, C. schwarzi*
nFisher, PUSNM 80(22): 65-67, 1932.
- Callicorixa canadensis*
inWalley, Can. Ent. 62: 80, 1930.
- Callida tinctula*
nDarlington, Psyche 41: 117, 1934.
- Calidium antennatum*—Mouth parts
iGoldman, Trans. Amer. Ent. Soc. 59: 94-95, 1933.
- Calliephialtes benefactor*
nCushman, PUSNM 79(14): 6-7, 1932.
- Calliephialtes comstocki*
bFriend, Ent. Soc. Ont. R. 65: 52, 1934.
- Calliephialtes grapholithae*
Gill, Nat. Pecan Grow. Assoc. P. 29: 72, 1930.
Nickels, Nat. Pecan Grow. Assoc. P. 30: 60, 1931.
[Nickels], Pecan Grow. 1(3): 5, 8, 1933.
- Calliephialtes messor*
Essig, Hist. of Ent.: 325, 1931.
- Calliephialtes nucicola*
Barrett, J. Ec. Ent. 25: 1111-1112, '32.
nCushman, PUSNM 79(14): 5-6, 1932.
- Calligrapha bigsbyana*
Twinn, Ent. Soc. Ont. R. 65: 126, 1934.
- Calligrapha elegans* (Tickseed leaf-beetle)
iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 38, 1934.
- Calligrapha multipunctata suturella*
nSchaeffer, J. N.Y. Ent. Soc. 41: 478, 1933.
- Calligrapha philadelphica*
Felt, J. Ec. Ent. 26: 47, 1933.
- Calligrapha rhoda walshiana*
Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 17-18.
- Calligrapha scalaris floridana*
nSchaeffer, J. N.Y. Ent. Soc. 41: 476, 1933.
- Calligrapha vicina*
nSchaeffer, J. N.Y. Ent. Soc. 41: 467-477, 1933.
- Callimicra cyanescens*
nFisher, PUSNM 82(27): 46-47, 1933.
- Callimome albitarse*
Bigger, J. Ec. Ent. 23: 287, 1930.
- Callimome druparum* (Boh.) (Apple seed chalcid)*
iHerrick, Rur. N.Y. 89: 517-518, 1930.
Twinn, Ent. Soc. Ont. R. 65: 119, 1934.

- Calliphora and intestinal myiasis**
 Cecil, Text-book of Med. ed. 3: 508, 1934.
- Calliphora erythrocephala**
 Abbott, Ann. Ent. Soc. Amer. 25: 241-244, 1932.
 biMcIndoo, J. Morph. 56: 445-475, 1934.
- Calliphora erythrocephala—Maggot therapy**
 bd'Alessio, Amer. Inst. Homeopathy J. 27: 713-716, 1934.
 iBaer, J. Bone & Jt. Surg. 13: 438-475, 1931.
 biLivingston, U. S. Vet. Adm. Med. B. 9: 2-6, 1932.
 bWentworth, Indus. Med. 2: 310-313, 1933.
- Calliphora mumfordi**
 nMalloch, Bernice P. Bishop Mus. B. 98, 15, 1932.
- Calliphora simulata**
 nMalloch, Bernice P. Bishop Mus. B. 98: 16, 1932.
- Calliphora sp. and Myiasis**
 bHerns, Ann. Internal Med. 6: 941-945, 1933.
- Calliphora vomitoria**
 bCausey, Amer. J. Hyg. 15: 276-286, 1932.
 iHodgkiss & Smith, Penn. Ext. C. 140: 5-7, 1931.
 McDaniel, Mich. C. B. 144: 14, 1932.
- biMinnich, J. Exp. Zool. 60(1): 121-139, 1931.
- Calliphoridae**
 biCrow, Physiol. Zool. 5: 16-35, 1932.
 Curran, Amer. Mus. Nov. 506, 1931, 22p.
- Callipterini—Key**
 biShinji, J. Morph. 51: 379-380, 1931.
- Callipterinola**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 887, 1931.
- Callipterus discolor, see Myzocallis discolor**
- Callipterus elegans**
 iBartholomew, Ann. Ent. Soc. Amer. 25: 713-716, 1932.
- Callipterus juglandis**
 Jardine, Oreg. Bien. R. f. 1928-1930: 90.
 Thompson, Oreg. Hort. Soc. R. 22: 118, 1930.
- Callirhytis azteca** 32: 140, **corrugis** 33: 225, **hartigi** 32: 140.
 Weld, P. Ent. Soc. Wash. 1930-1931.
- Callithmysus microgaster**
 Swezey, Hawaiian Ent. Soc. P. 7: 374, 1931.
- Callitula bicolor**
 biGahan, USDA Misc. Pub. 174: 109-114, 1933.
- Calopistria floridensis (Florida fern cutworm)**
 bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 42-43, 1931.
 Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 56-57, 1930.
- Callosamia promethea (Drury) (Promethea moth)***
 iBeard, Amer. Boys' Bk. Bugs, 1932. 86-89.
 Haskins, J. N.Y. Ent. Soc. 42: 145-154, 1934.
 iMcDaniel, Mich. Sp. B. 243: 54, 1933.
 Wickwire & Calale, Ent. News 47: 323, 1930.
- Callosobruchus maculatus (F.) (Cowpea weevil)***
 iBack, USDA FB 1275: 12-13, 1930.
 iMarcovich, Tenn. B. 150, 1934. 8p.
 Wilmot, Fla. R. f. 1934: 69.
- Callostigma hyalipennis, panamaensis**
 Curran, Amer. Mus. Nov. 415: 15; 416: 8-9, 1930.
- Calobatidae—British Guiana**
 Curran, Amer. Mus. Nov. 559, 1932. 4p.
- Calocampa cineritia**
 Phipps, Maine B. 356: 174, 1930.
- Calocoris californica**
 nKnight, Pan-Pac. Ent. 9: 69-71, 1933.
- Calocosmus magnificus**
 nFisher, PUSNM 80(22): 89-90, 1932.
- Calodexia spp**
 Curran, Amer. Mus. Nov. 685, 1934, 21p.
- Calomacraspis splendens**
 Smyth, J. Kans. Ent. Soc. 7: 114, 1934.
- Calomycter setarius**
 iBritton, Conn. B. 349: 448, 1933.
 iMutchler, Amer. Mus. Nov. 418, 1930, 3p.
- Caloneurella**
 nCarpenter, Ann. Carnegie Mus. 22: 324-326, 1934.

- Calonyx flagellum, montanus**
inLundblad, Conn. Acad. Arts & Sci.
Mem. 10: 97-100, 1934.
- Calophya triozae**
Klyver, Ent. News 43: 12, 1932.
- Calopteron reticulatum**
Fernald, Ent. News 43: 163-164, 1932.
- Calopterygidae**
Cockerell, Ent. News 41: 49-50, 1930.
- Calopteryx apicale**
Williamson, Mich. Univ. Mus. Zool.
Occ. Pap. 288: 15, 1934.
- Calosoma calidum (F.) (Fiery hunter)***
Decker, Iowa Res. B. 143: 341-342, '31.
iGibson, Can. Dept. Agr. B. n.s. 99,
rev.: 4, 1934.
Maheux, Nat. Can. 59: 60-61, 1932.
Moore, Bklyn, Ent. Soc. B. 28: 36, '33.
iStrickland, Alberta Ext. B. 24: 23, '33.
- Calosoma fernquisti**
Carpenter, Ann. Ent. Soc. Amer. 24:
307-309, 1931.
- Calosoma subaeneum—Lost species**
Martin, Pan-Pac. Ent. 8: 189, 1932.
- Calosoma sycophanta**
Collins, Mass. Comm. Conserv. St. For.
R. f. 1932: 27.
Collins & Jones, USDA YB 1932: 237.
Essig, Hist. of Ent.: 285-286, 1931.
Glendenning, B. C. Ent. Soc. P. 28: 29,
1931.
Marlatt, USDA Ent. R. f. 1932: 24.
- Calosota metallica**
Gahan, USDA Misc. Pub. 174: 58-60,
1933.
Knowlton and Janes, Utah B. 243: 12,
1933.
- Calpodes ethlius (Cram.) (Larger canna
leaf roller)***
O'Byrne, Bklyn. Ent. Soc. B. 27: 186-
187, 1932.
- Calvoppia perkinsi**
inJacot, Bernice P. Bishop Mus. B. 121:
28-30, 1934.
- Calychochaetus—Key**
Van Duzee, Pan-Pac. Ent. 7: 53-54,
1930.
- Cambae mosquito, see Megarhinus inor-
natus**
- Camberwell beauty, see Hamadryas an-
tiopa**
- Camel cricket, see Ceuthophilus sp.**
- Camellia insects**
Oelschig, Ga. St. Hort. Soc. P. 54: 66,
1930.
- Cameraria—Key**
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R.
12: 139, 1930.
- Cameraria aberrans**
nBraun, Trans. Amer. Ent. Soc. 56: 12-
14, 1930.
- Camnula pellucida (Clear-winged grass-
hopper)***
Buckell, B. C. Ent. Soc. P. 27: 34-35,
1930.
iCriddle, Can. Dept. Agr. B. n.s. 143:
14, 1931.
iHenderson, Utah C. 96: 25-26, 1931.
iMitchener, Ent. Soc. Ont. R. 63: 45-48,
1932.
Mitchener, Manitoba Dept. Agr. Ext.
B. 98: 7, 1932.
iMitchener, Ent. Soc. Ont. R. 65: 87-89,
1934.
- biParker, Mont. B. 223, 1930, 131p.**
iStrickland, Alberta Ext. B. 24: 15-16, '33.
Twinn, Ent. Soc. Ont. R. 64: 64, 1933;
R. 65: 113, 1934.
- Camouflage cricket, see Neduba carinata**
- *Camphor scale, see Pseudonidia duplex**
- Campodea, C. californiensis**
inHilton, J. Ent. & Zool. 24: 47-51, 1932.
- Campodea cooki**
Giovannoli, Bailey, Cave Life of Ky.:
233, 1933.
- Campodea eureka, C. kerni**
inHilton, J. Ent. & Zool. 24: 47-49, 1932.
- Campodea sp.**
Ingram, Sugar B. 12(12): 5, 1934.
Swezey, Hawaiian Ent. Soc. P. 8: 364,
1934.
- Camponotus (Myrmothrix) abdominalis
stercorarius**
iWheeler, Psyche 40: 28-31, 1933.
- Camponotus (Tanaemyrmex) bermudezi**
nAguayo, Bklyn. Ent. Soc. B. 27: 225-
226, 1932.
- Camponotus (Myrmentoma) caryae**
Rau, Acad. Sci. St. Louis Trans. 28:
214-215, 1934.
- Camponotus (Myrmophyma) claripes**
iWheeler, Psyche 40: 26, 1933.
- Camponotus (Tanaemyrmex) consobrinus**
iWheeler, Psyche 40: 22-26, 1933.

- Camponotus (Myrmacladoecus) corniculatus**
inWheeler, Ann. Ent. Soc. Amer. 27: 423-424, 1934.
- Camponotus herculeanus (Carpenter ant)**
Bentley & Rogers, Tenn. Pl. Dis. Control B. 40: 15, 1931.
Dickenson, Extermin. Log 1(5): 9, 1933.
iHouser, Ohio B. 478: 43-44, 1931.
iVan Dyke, Kofoid, Termites and Termite Control: 325-327, 1934.
iWeed, Insect Ways: 302, 1930.
- Camponotus herculeanus pennsylvanicus (Deg.) (Black carpenter ant)***
biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 26, 1931.
iMcDaniel, Mich. C. B. 134: 8-10, 1930.
Rau, Acad. Sci. St. Louis Trans. 28: 215, 1934.
- Camponotus (Tanaemyrmex) incensus**
nWheeler, J. N.Y. Ent. Soc. 40: 14-15, 1932.
- Camponotus (Camponotus) keiferi**
nWheeler, Pan-Pac. Ent. 10: 137-138, 1934.
- Camponotus levigatus**
Burgess, Yosemite Nature Notes 11(1): 6, 1932.
- Camponotus maculatus**
Northwood, Hawaiian Ent. Soc. P. 8: 219, 1933.
Phillips, Hawaiian Pineapple Prod. B. 15: 19-20, 1934.
Williams, Hawaiian Ent. Soc. P. 7: 344-345, 1931.
- Camponotus maculatus (Fabr.) mitis Sm. hawaiiensis Forel**
bWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 226-228, '31.
- Camponotus (Colobopsis) manni**
inWheeler, Ann. Ent. Soc. Amer. 27: 418-420, 1934.
- Camponotus (Colobopsis) obliquus**
nSmith, Ann. Ent. Soc. Amer. 23: 567-568, 1930.
- Camponotus (Myrmepomis) sericeiventris**
iWheeler, Psyche 38: 86-98, 1931.
- Camponotus (Myrmepomis) sericeiventris imperator**
nWheeler, Pan-Pac. Ent. 10: 140-141, 1934.
- Camponotus (Tanaemyrmex) socius osceola**
nWheeler, J. N.Y. Ent. Soc. 40: 15-17, 1932.
- Camponotus (Myrmobrachys) socorroensis**
nWheeler, Pan-Pac. Ent. 10: 142-144, 1934.
- Camponotus (Manniella) sphaericus rufipilis**
nAguayo, Bklyn. Ent. Soc. B. 27: 226, 1932.
- Camponotus spp.**
bTalbot, Ecology 15: 418-423, 1934.
iWheeler, Ann. Ent. Soc. Amer. 27: 415-424, 1934.
- Camponotus torrei**
nAguayo, Bklyn. Ent. Soc. B. 27: 227, 1932.
- Campoplex (Angitia) antennaellae**
nWalley, Can. Ent. 64: 182-183, 1932.
- Campoplex frustranae**
Marlatt, USDA Ent. R. f. 1930: 48.
- Campsicnemus spp.**
nVan Duzee, Amer. Mus. Nov. 439: 1-2, 1930.
inVan Duzee, Hawaiian Ent. Soc. P. 8: 314-334, 1933.
- Campsomeris annulata**
biClausen, USDA TB 308, 1932, 27p.
- Campsomeris annulata—Parasite**
biClausen, Jaynes & Gardner, USDA TB 366: 28-30, 1933.
- Campsomeris aureicollis**
Lopez, Facts about Sugar 25: 797, 1930.
biLopez, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 50 [P. Pt. 2]: 6-12, 1932.
- Campsomeris dorsata**
biWolcott, P. R. Univ. J. Agr. 18: 438-440, 1934.
- Campsomeris jamaicensis**
Jarvis, Facts about Sugar 27: 179-180, 1932.
- Campsomeris marginella modesta**
iBade, Gard. Chron. Amer. 37: 16, 1933.
Pemberton, Facts about Sugar 27: 484, 1932.
- Swezey & Williams, Pan-Pac. Res. Inst. J. 6: 3-5, 1931.**
Williams, Hawaiian Ent. Soc. P. 7: 345, 1931.

- biWilliams, Handb. Insects . . . Hawaiian
Sugar Cane Fields: 192-194, 1931.
Wolters, Hawaiian Pl. Rec. 38: 246,
277-278, 1934.
- Campsomeris trifasciata**
biWolcott, P. R. Univ. J. Agr. 18: 437,
1934.
- Camposternus papuensis**
inVan Zwaluwenburg, Hawaiian Ent.
Soc. P. 7: 430, 1931.
- Camptocladus bysinnus**
iThompson, Ent. Soc. Ont. R. 60: 96, '30.
- Camptocladus fumosinus, nerius**
nCurran, BAMNH 61: 33-34, 1931.
- Camptonotus affinis**
Hebard, Trans. Amer. Ent. Soc. 58,
339, 1932.
- Camptoptera brunnea**
nDozier, P. Ent. Soc. Wash. 35: 97, 1933.
- Camptoptera minutissima**
nDozier, P. R. Dept. Agr. J. 16: 89, 1932.
- Camptoptera pulla**
bDozier, Williams & Butler, Del. B. 176:
42, 1932.
- Campylocentrus nigris**
inFunkhouser, J. N. Y. Ent. Soc. 38: 410,
1930.
- Campylomma verbasci**
Gilliat, Ent. Soc. Ont. R. 61: 13, 1931.
Tate, J. Ec. Ent. 26: 1173, 1933.
- Canace cala**
nCresson, Trans. Amer. Ent. Soc. 60:
220-221, 1934.
- Canaceoides, C. caffraria, nudata**
nCresson, Trans. Amer. Ent. Soc. 60:
221-222, 1934.
- Canalia**
nCurran, Fam. & Genera of North Amer.
Diptera: 465-466, 1934.
- Canarsia hammondi**
iQuaintance & Siegler, USDA FB 1270
rev.: 55-56, 1931.
- Canary insects**
Hall, Roller Canary J. 12: 256-257, '33.
Stroud, Dis. of Canaries: 66-73, 1933.
iPop. Mech. 56: 905, 1931.
- 'Candelilla," see Gnorimoschema opercu-
lilla**
- Candy insects**
Gray, Que, Soc. Prot. Pl. R. 25/26: 51,
1934.
- Cane root grub, see Anomala orientalis**
- Cankerworms**
iEssig & Hoskins, Cal. Ext. C. 87: 92-
93, 1934.
Quaintance & Siegler, USDA FB 1666:
69-70, 1931.
iSmith, J. Kans. Ent. Soc. 7: 42-43, 1934.
Stene, R. I. St. Col. B. 226: 8, 1930.
- Canned tomato insects**
Bloedorn, Food Ind. 5: 353, 1933.
- Canning crop insects**
Hedrick, N. Y. (Gen.) R. 49: 64-65,
1930; R. 50: 53-55, 1931; R. 51: 64-
67, 1932.
Parks, Ohio Veg. Grow. Assoc. R. 16:
161-167, 1931.
Raymond, N. Y. (C.) Ext. B. 229: 10,
1932.
- Canning factory insects**
Caesar, Ont. Min. Agr. R. f. 1932: 46,
1933.
Doherty, Fruits & Gardens 47(1): 14,
1931.
Kennedy, Ont. Agr. Coll. & Exp. Farm
R. 56: 118-119, 1930.
- Canning products insects**
Illingworth, Hawaiian Ent. Soc. P. 7:
462-465, 1931.
- Cantaloupe fruit worm, see Diaphania sp.**
- Cantaloupe insects**
Arterburn, Ill. St. Hort. Soc. P. 75:
197-198, 1930.
Brannen, Ark. B. 297: 98, 1934.
iBrooks & McDowell, Tex. C. 70: 11,
1934.
Ernst, Cal. Cult. 77: 145, 1931.
Schermerhorn, Ohio Veg. Grow. Assoc.
P. 16: 80, 1931.
- Canthochilum, C. histeroides, oakleyi**
nChapin, P. Biol. Soc. Wash. 47: 99-101,
1934.
- Canthon lecontei**
Bryson, J. Kans. Ent. Soc. 4: 22, 1931.
- Canthonella, C. parva**
nChapin, Amer. Mus. Nov. 409: 1-2, 1930.
- Capitophorus—Key**
Gillette & Palmer, Ann. Ent. Soc.
Amer. 27: 144-145, 1934.
- Capitophorus brevinectarius**
inGillette & Palmer, Ann. Ent. Soc.
Amer. 26: 350-351, 1933.

- Capitophorus corambus**
inHottes & Frison, Ill. Nat. Hist. Surv.
B. 19(3): 281-282, 1931.
- Capitophorus fragaefolii** (Strawberry aphid)*
Dean, Kans. St. Hort. Soc. Bien. R. 42:
141-142, 1934.
Essig & Hoskins, Cal. Ext. C. 87: 81,
1934.
Jones & Hanson, Wash. Ext. B. 180:
9-10, 1933.
Zeller, Oreg. B. 319: 9-11, 1933.
- Capitophorus fragaefolii** and disease of
strawberry
bBrooks, Fla. TB. 235: 11, 1931.
biVaughn, Phytopath. 23: 738-740, 1933.
- Capitophorus heterohirsutus, longinectarius**
inGillette & Palmer, Ann. Ent. Soc.
Amer. 26: 351-353, 1933.
- Capitophorus pakansus, patonkus**
inHottes & Frison, Ill. Nat. Hist. Surv.
B. 19(3): 286-290, 1931.
- Capitophorus pullus**
inGillette & Palmer, Ann. Ent. Soc.
Amer. 26: 353-354, 1933.
- Capitophorus ribis** (Currant aphid)*
Britton, Conn. B. 344: 102, 1933.
iChambers & Thompson, Wis. Dept.
Agr. B. 123: 20, 1931; B. 145: 27,
1933.
Crosby, Rankin & Mills, N.Y. (C.) Ext.
B. 306: 17-18, 1934.
iDarrow & Detwiler, USDA FB 1398
rev.: 15-16, 1933.
Dean, Kans. St. Hort. Soc. Bien. R. 40:
148, 1930.
Jones & Hanson, Wash. Ext. B. 180: 7,
1933.
iQuaintance, USDA FB 1398 rev.: 15-
16, 1934.
iQuaintance & Siegler, USDA FB 1666:
90, 1931.
Twinn, Ent. Soc. Ont. R. 65: 121, 1934.
- Capniidae**
biClaassen, Plecoptera Nymphs of Amer-
ica: 109-116, 1931.
- Capper award, see Insects—Control—Cap-
per award**
- Capritermes** (Neocapritermes) *centralis*
inSnyder, P. Ent. Soc. Wash. 34: 100,
1932.
- Caprithrips, C. analis**
nFaure, Bklyn. Ent. Soc. B. 28: 12-14,
1933.
- Capua oheoheana, pterotropiana**
nSwezey, Hawaiian Ent. Soc. P. 8: 301-
302, 1933.
- Capucinella delicatula**
Caudell, Ent. News 42: 204, 1931.
- Carabidae**
Andrewes, Conn. Acad. Arts & Sci.
Mem. 10: 23-28, 1934.
bDarlington, Psyche 38: 145-164, 1931.
Hatch, Pan-Pac. Ent. 9: 117-121, 1933.
Nicolay & Weiss, J. N.Y. Ent. Soc. 42:
193-213, 1934.
ibValentine, Elisha Mitchell Sci. Soc. J.
46: 247-258, 1931.
Valentine, P. Ent. Soc. Wash. 35: 192,
1933.
- Carabodini**
nJacot, Bernice P. Bishop Mus. B. 121:
10, 1934.
- Carabunia myersi**
Clausen, Ann. Ent. Soc. Amer. 25:
683-684, 1932.
- Carabus auratus**
iPefia, La Hazienda, 25: 74, 1930.
- Carcelia laxifrons**
Collins & Jones, USDA YB f. 1932: 237.
bProper, J. Agr. Res. 48: 373-374, 1934.
- Carcelia separata**
Collins, Mass. Comm. Conserv. St.
For. R. f. 1932: 28.
- Carcelia gnava**
Brown, USDA C. 176: 13-15, 1931.
- Cardboard insects**
Swezey, Hawaiian Ent. Soc. P. 7: 379,
1931.
- Cardiacephala triluminata**
nCresson, Trans. Amer. Ent. Soc. 56:
331, 1930.
- Cardiastethus cavicollis**
nBlatchley, Trans. Amer. Ent. Soc. 60:
12, 1934.
- Cardiocondyla sp.**
Phillips, Hawaiian Pineapple Prod. B.
15: 21-22, 1934.
- Cardiocondyla wroughtonii hawaiiensis**
Swezey, Hawaiian Ent. Soc. P. 8: 32, 32.
- Cardiophorus albipubens**
nVan Zwaluwenburg, Hawaiian Ent.
Soc. P. 7: 435, 1931.

- Cardoribates**
 nJacot, Bernice P. Bishop Mus. B. 121: 37, 1934.
- ***Caribbean pod borer**, *see* **Fundella cistipennis** Dyar
- Cariblatta advena**
 inRehn, Trans. Amer. Ent. Soc. 58: 125-127, 1932.
- Cariblatta faticana**
 inRehn, Trans. Amer. Ent. Soc. 56: 20-22, 1930.
- Caribou nostril fly**, *see* **Cephenomya nasalis**
- Caricea humilis**
 Spencer, B. C. Ent. Soc. P. 30: 22, 1933.
- Carineta fasciculata**
 bWymore, J. Ec. Ent. 27: 885, 1934.
- Carineta martiniquensis**
 inDavis, J. N.Y. Ent. Soc. 42: 54-55, '34.
- Carnation thrips**, *see* **Thrips tabaci**
- Carnecephala** spp.
 inNottingham, J. Kan. Ent. Soc. 5: 97-115, 1932.
- biOsborn, USDA C. 241: 13-15, 1932.
- Carnivorous insects**
 Swezey, Pan-Pac. Union B. n.s. 123: 3, 1930.
- Carnivorous mosquito**, *see* **Megarhinus inornatus**
- Carnivorous plants**
 biLloyd, Royal Soc. Can. P. ser. 3, 27: xxxvii-ci, 1933.
- Carolimya diptera, plagiata**
 nMalloch, PUSNM 78(15): 18-19, 1931.
- ***Carolina grasshopper**, *see* **Dissosteira carolina** L.
- Carolina locust**, *see* **Dissosteira carolina**
- ***Carolina mantis**, *see* **Stagmomantis carolina** Johan.
- Carolinaia rhois**
 iTissot, Fla. Ent. 17: 37-41, 1933.
- Carpenter ants**, *see* **Camponotus** spp.
- ***Carpenter bee**, *see* **Xylocopa virginica**
- ***Carpenter worm**, *see* **Prionoxystus robiniae** Peck
- ***Carpet beetle**, *see* **Anthrenus scrophulariae** L.
- ***Carpet moth**, *see* **Trichophaga tapetzella** L.
- Carphoborus swainei, vandykei**
 inBruck, Can. Ent. 65: 104-106, 1933.
- †**Carpocapsa pomonella** L. (Codling moth)*
 Ackerman, Ark. St. Hort. Soc. P. 50: 21-27, 1930.
- Ackerman, Kans. St. Hort. Soc. Bien. R. 40: 38-41, 1930.
- iAlden, Ga. St. Bd. Ent. B. 73: 3-8, '31.
- Barry, Wash. St. Hort. Assoc. P. 25: 145-150, 1929.
- Barss & Mote, Oreg. Ext. B. 431: 6-7, 1931.
- iBorden, J. Ec. Ent. 24: 1137-1145, '31.
- Brannen, Ark. B. 297: 85-87, 1934.
- iBritton, Conn. B. 344: 73, 1933.
- Butcher, Brindley & Beck, Iowa St. Hort. Soc. Trans. 65: 261-262, 1930.
- iCaesar, Ont. B. 356: 11-14, 1930.
- Call, Kans. Bien. R. 5: 114-115, 1930.
- iCardon, Utah B. 220: 41, 1930.
- Chapman & Hammer, N.Y. (Gen) B. 606: 17-19, 1932.
- Clark, Iowa St. Hort. Soc. Trans. 69: 101-103, 1934.
- Close, Ill. St. Hort. Soc. Trans. 67: 227-228, 1934.
- Cooper, Ky. R. 46, pt. 1: 41-42, 1934.
- iCory, Md. Agr. Soc. R. 16: 212-218, 1931.
- Cory, Md. St. Hort. Soc. P. 33: 56-64, 1931; P. 34: 57-61, 1932; P. 35: 86, 1933; P. 36: 52, 1934.
- Cory, Peninsula Hort. Soc. Trans. 46: 98-101, 1932; 47: 58-60, 1933; 48: 15-19, 1934.
- Cory, J. Ec. Ent. 27: 509-514, 1934.
- Coulson & Godbout, Que. Pom. & Fr. Grow. Soc. R. 36: 95-96, 1929.
- Crosby, N.Y. St. Hort. Soc. P. 77: 8, 1932.
- Cutright, Ohio B. 497: 73-74, 1932.
- Cutright, Ohio B. 516: 46-47, 1933.
- Cutright, Ohio Wkly. P.B. 18(11), 1933.
- iCutright, Ohio Hort. Soc. P. 67: 96-103, 1934.
- iCutright & Parks, Ohio Ext. B. 148, 1934. 16p.
- Davis, Ind. Acad. Sci. P. 39, 297-298, 1930; P. 40: 314, 1931; P. 43: 198, 1933.
- Davis, Ind. Hort. Soc. Trans. 73: 75-78, 1933.
- Deaver, Big "Y" B. 10(5): 4-6, 1930.
- Deaver, Big "Y" B. 10(7): 4-6, 1930.

†*Carpocapsa pomonella* L. *Cont'd*

- Diehl, Lutz & Ryall, USDA FB 1687: 1, 1931.
- iDoane, Common Pests: 146-150, 1931.
- Dorman, Ill. St. Hort. Trans. 66: 541-543, 1932.
- Dorman, Ind. Hort. Soc. Trans. 73: 73-75, 1933.
- Dozier, Del. B. 162: 30-33, 1929.
- Driggers, N.J. Agr. 16(5): 3, 1934.
- Drinkard, Va. Poly. R. f. June 1927/July 1931: 34.
- Dye, N.H. Hort. Soc. R. 19: 21-22, '30.
- Eddy, Ky. Hort. 7(23): 6-7, 1931.
- Eddy, Ky. St. Hort. Soc. Trans. 76: 66-71, 1931; 77: 80-81, 1932.
- iEddy & Nettles, S.C. R. 43: 65-66, '30.
- Eddy et al, Ky. B. 353: 214-216, 1934.
- Essig, Hist. of Ent.: 244-254, 1931.
- iEssig & Hoskins, Cal. Ext. C. 87: 9-15, 1934.
- Evans, Conn. Pom. Soc. P. 43: 59-63, 1933.
- Farnsworth, Md. Agr. Soc. R. 17, 208-212, 1933.
- Farnsworth, Md. St. Hort. Soc. P. 35: 92-96, 1933.
- Farnsworth, Ohio St. Hort. Soc. P. 66: 43-48, 1933.
- Farrar, Tenn. St. Hort. Soc. P. 26: 88-89, 1931.
- iFite, N.Mex. B. 209: 34-38, 1933.
- Flint, Ill. St. Hort. Soc. Trans. 64: 262-275, 1930; 66: 150-168, 1932.
- Flint & Chandler, Ill. Hort. Soc. Trans. 66: 528-537, 1932.
- Flint & Farrar, Ill. Hort. Soc. Trans. 65: 148-170, 1931.
- Fluke, Munro & Fox, N. & S.D. Hort. 5: 95, 1933.
- Frison, Ill. Dept. Reg. and Ed. R. 15: 27, 1932.
- Frost, J. Ec. Ent. 25: 77-83, 1932.
- Garcia, N.Mex. R. 41: 84-85, 1931; R. 34: 38-39, 66, 1932; R. 45: 36, 1934.
- Gardner, Amer. Pom. Soc. P. 49: 85-86, 1933.
- Gardner, Mich. R. f. 1933-1934: 30.
- iGilmer & Parker, Kans. B. 263, 1932. 29p.
- Gilmer et al, Kans. Bien. R. 6: 97-98, 1932.
- Glasgow, N.Y. St. Hort. Soc. P. 76: 12, 1931.
- Glenn, Kans. St. Hort. Soc. Bien. R. 41: 27, 1932.
- iGodbout, Que. Min. de l'Agr. B. 124: 18-19, 1933.
- Gould, J. Ec. Ent. 27: 229-232, 1934.
- iGreene, Ind. C. 203: 12-14, 1934.
- Gunderson, Neb. R. 44: 24, 1931.
- iHansberry & Richardson, Iowa St. Hort. Soc. Trans. 69: 89-94, 1934.
- Harman, Amer. Agr. 130: 136, 138, '33.
- iHarman, N.Y. (Gen) B. 627, 1933. 31p.
- Harman, J. Ec. Ent. 27: 143-145, 1934.
- iHarman, N.Y. (Gen) C. 140: 1934. 7p.
- iHaseman, Missouri B. 272: 58, 1929; B. 285: 71-73, 1930; B. 310: 31, 1932; B. 334, 1934. 16p.; B. 340: 46-48, '34.
- iHaseman, Missouri C. 169, 1933. 4p.
- Haseman, Missouri St. Hort. Soc. P. f. 1933-1934: 86-87.
- Haseman & Johnson, Missouri B. 310: 33, 1932; B. 328: 27, 1933.
- Headlee, N.J. R. 50: 143-145, 1929.
- Headlee, Del. St. Bd. Agr. B. 18(5): 87-94, 1930.
- Headlee, N.J. Dept. Ent. R. f. 1929: 143-145, 1930.
- Headlee, Peninsula Hort. Soc. Trans. 44: 52-59, 1930.
- iHeadlee, Canning Age 12: 684, 1931.
- Headlee, N.J. Dept. Ent. R. f. 1930: 143-159, 1931.
- Headlee, N.J. St. Hort. Soc. P. f. 1930: 45-55, 1931; P. f. 1931: 43-44.
- iHeadlee, J. Ec. Ent. 25: 545-554, 1932.
- Headlee, N.J. R. 53/54: 38-39, 1933.
- Hodgkiss, Penn. St. Hort. Assoc. News 8: 21-23, 26-27, 1931.
- Hodgkiss, Penn. St. Hort. Assoc. P. 74: 36, 1933; P. 75: 50-56, 1934.
- Hodgkiss et al, J. Ec. Ent. 27: 232-239, 1934.
- Holt, Ill. St. Hort. Soc. Trans. 66: 47-48, 1932.
- Hooker, USDA Exp. Sta. R. f. 1931: 46-47, 1932.
- Hough, Va. St. Hort. Soc. P. 35: 135-143, 1930.
- Hough, Md. Agr. Soc. R. 15: 196-210, 1931.

- Hough, Md. St. Hort. Soc. P. 33: 50-56, 1931.
- Hough, Peninsula Hort. Soc. Trans. f. 1931: 135-137; 47: 35-38, 1933.
- Hough, Va. St. Hort. Soc. P. 36: 134-138, 1931; P. 38: 165-171, 1934.
- ibHough, J. Agr. Res. 48: 533-553, 1934.
- Hough, J. Ec. Ent. 27: 145, 1934.
- Hough, Md. St. Hort. Soc. P. 36: 16-20, 1934.
- Houser, Ohio Hort. Soc. P. 67: 90-96, 1934.
- Ingerson, Penn. St. Hort. Assoc. P. 73: 39-42, 1932.
- Jardine, Oreg. Bien. R. f. 1928-1930: 88.
- iJones, J. Ec. Ent. 24: 676-681, 1931.
- Kendall, N.H. B. 280: 16-17, 1934.
- Lewis, Ill. St. Hort. Soc. Trans. 66: 543-548, 1932.
- Lipman, N.J. R. 55: 42-43, 1934.
- List, Col. R. 45: 42-43, 1932.
- List, J. Ec. Ent. 26: 373-377, 1933.
- iList & Newton, Col. St. Ent. C. 60, 1934, 8p.
- Liston, Kans. Ent. Com. Bien. R. 13: 9, 1932; R. 14: 6-7, 1934.
- biLockwood, Cal. Agr. Mo. B. 22: 170-178, 333-336, 1933.
- bMcAllister & Van Leeuwen, J. Ec. Ent. 23: 907-922, 1930.
- McCue, Del. Ext. B. 20: 40-41, 1934.
- Magness, Md. St. Hort. Soc. R. 32: 180-181, 185-186, 1930.
- Maltais, Que. Pom. & Fr. Grow. Soc. R. 40: 99-100, 1933.
- Marlatt, USDA Ent. R. f. 1931: 10-12; R. f. 1932: 2; R. f. 1933: 3-5.
- Marsh, Iowa St. Hort. Soc. P. 67: 80-82, 1933.
- Marsh, Ill. St. Hort. Soc. Trans. 67: 381-384, 1934.
- Meacham, Ida. St. Hort. Assoc. Conv. 38: 95-96, 1933.
- ibMex. Agr. & Fomento. Principales Plagas: 101-102, 1930.
- iMoran, Amer. Fr. Grow. Mag. 51(2): 9, 1931.
- Mote & Thompson, Pac. Sci. Cong. 5, P. 5: 3411-3417, 1934.
- Mumford, Ill. R. 42: 142-146, 1929.
- iMumford, Ill. R. 46: 149-151, 1933.
- iMunro & Riddle, N.Dak. C. 42 rev.: 24-25, 1933.
- iNettles, S.C. R. 44: 69-70, 1931; R. 45: 75-76, 1932; R. 46: 79-81, 1933.
- ibNettles, S.C. B. 295, 1934. 30p.
- Newcomer, Ida. St. Hort. Assoc. P. 35: 38-39, 1930.
- Newcomer, USDA FB 1326, rev. 1931. 25p.
- Newcomer, Wash. St. Hort. Assoc. P. 27: 46-51, 1931.
- Newcomer, Oreg. St. Hort. Soc. R. 25: 84-87, 1933.
- iNewcomer, USDA C. 270: 2-8, 1933.
- Newcomer, Wash. St. Hort. Assoc. P. 29: 71-73, 1933.
- Newcomer, J. Ec. Ent. 27: 139-141, 1934.
- Newcomer, Oreg. St. Hort. Soc. R. 26: 76-78, 1934.
- Newcomer & Carter, Wash. St. Hort. Soc. P. 26: 73-76, 1930.
- Newcomer, Dean & Rolfs, Wash. St. Hort. Soc. P. 28: 28-32, 1932.
- iNichols, Iowa Ext. B. 181: 7-8, 1932.
- Pack, Utah B. 216: 16-17, 1930.
- Pack & Janes, Utah Acad. Sci. P. 7: 58, 1930.
- Parker & Emerson, Kans. St. Hort. Soc. Bien. R. 42: 100-107, 1934.
- Parks, Ohio St. Hort. Soc. P. 64: 12-18, 1931; P. 66: 49-54, 1933.
- Parrott, N.Y. St. Hort. Soc. P. 76: 24-26, 1931.
- Parrott, J. Ec. Ent. 26: 358-363, 1933; 27: 218-222, 1934.
- Patterson, Md. R. 45: xvii, 1932.
- Petch, Que. Pom. & Fr. Grow. Soc. R. 36: 99, 1929.
- Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 16-17.
- Pettit, Mich. Ext. B. 121, 1931. 4p.
- iPettit & Hutson, Mich. C.B. 137: 40-44, 1931.
- Pickett, N.S. Fr. Grow. Assoc. R. 70: 53, 1933; R. 71: 40, 1934.
- Pickett & Filinger, Kans. C. 169: 17-20, 1932.
- Porter, Amer. Pom. Soc. P. 49: 34-42, 1933; P. 50: 20-25, 1934.
- Porter, Ill. St. Hort. Soc. Trans. 67: 184-190, 1934.

†*Carpocapsa pomonella* L. *Cont'd*

- Porter, Mich. St. Hort. Soc. R. 64: 18-22, 1934.
- Potter et al, N.H. Ext. B. 47: 42-43, 1934.
- Quaintance & Siegler, USDA FB 1270 rev.: 1-6, 1931; FB 1666: 66, 1931.
- Quaintance et al, J. Ec. Ent. 24: 18-23, 1931.
- iReed, Ind. C. 179: 3-6, 1931; C. 183: 13, 1931.
- Regan, Wash. St. Hort. Assoc. P. 25: 130-131, 1929.
- Richardson, Iowa St. Hort. Soc. Trans. 66: 8-11, 1931; 68: 139-143, 1933.
- Richardson & Hansberry, Iowa St. Hort. Soc. Trans. 69: 94-101, 1934.
- Robertson, B.C. Dept. Agr. R. 24: 125, 1929.
- iRoss, Can. Dept. Agr. B. 129: 38-39, 1930.
- Ross, Can. Hort. Fr. & Truck ed. 53: 33, 1930; 55: 24, 1932.
- Ross, J. Ec. Ent. 27: 146-147, 1934.
- Ruggles, Minn. Hort. 61: 117, 1933; 62: 13, 73, 77, 1934.
- Ruth, Anderson & Flint, Ill. Hort. Soc. Trans. 67: 49-50, 1934.
- Ryan, Los Angeles Co. Ann. R. f. 1932: 13.
- iSanderson, Ins. Pests Farm, ed. 3: 337-343, 1931.
- Sazama, Ind. Hort. Soc. Trans. 73: 65-69, 1933.
- Schoene, J. Ec. Ent. 27: 505-508, 1934.
- iSherman, Mich. Sp. B. 221, 1932. 30p.
- Sherman, Mich. St. Hort. Soc. R. 61: 74-80, 1932; R. 62: 50-54, 1933.
- Sherman, J. Ec. Ent. 26: 383-392, 1933.
- iSiegler & Munger, USDA YB f. 1934: 160-161.
- Simpson, Md. St. Hort. Soc. P. 36: 20-26, 1934.
- Skinner, Ind. R. 46: 27-28, 1933; R. 47: 35-36, 1934.
- Skinner & Coleman, Ind. Ext. R. 22: 51, 1933.
- Skinner & Reed, Ind. R. 42: 36-37, 57, 1929; R. 43: 36-38, 1931; R. 44: 30, 1931; R. 45: 37, 1931.
- Smith, J. Kans. Ent. Soc. 5: 78-79, '32.
- iSmith, J. Kans. Ent. Soc. 7: 43, 1934.
- Smith & Hodgkiss, J. Ec. Ent. 27: 244-249, 1934.
- Spuler, Wash. St. Hort. Soc. P. 25: 143-144, 1929.
- Spuler, Wash. B. 245: 33-34, 1930.
- Spuler, Ida. St. Hort. Assoc. P. 36: 63-72, 1931.
- Spuler, Wash. B. 260: 32-33, 1931.
- Spuler, et al, Wash. St. Hort. Soc. P. 26: 59-72, 1930.
- Stearns, Peninsula Hort. Soc. Trans. f. 1931: 117-125.
- Stearns, J. Ec. Ent. 27: 225-229, 682-683, 1934.
- Stearns et al, Del. B. 167: 25-26, 1930; B. 172: 31-33, 1931; B. 179: 32-33, 1932; B. 188: 27-29, 1934.
- Stene, R.I. St. Col. B. 226: 8, 1930.
- Strand, Mont. B. 269: 15, 1932.
- Strand, Mont. B. 294: 36, 1934.
- Street, Ky. Hort. Soc. Trans. 75: 146-153, 1930.
- Sullivan, Missouri St. Bd. Agr. B. 28, 12-B. (pt. 2): 54, 1930.
- Sundquist, Wash. St. Hort. Soc. P. 28: 33-36, 1932.
- iSwenk, Neb. St. Bd. Agr. R. f. 1930: 455-474; R. f. 1932: 583-612.
- biSwenk, Neb. St. Hort. Soc. P. 61: 27-46, 1930; P. 62: 109-128, 1931; R. f. 1931: 109-128.
- Thompson, Oreg. St. Hort. Soc. R. 22: 117-118, 1930.
- Twinn, Ent. Soc. Ont. R. 64: 69-70, 1933; R. 65: 118, 1934.
- Wakeland & Haegele, Ida. St. Hort. Assoc. P. 36: 74-82, 1931.
- iWakeland & Haegele, Northw. Fr. Grow. 3(3): 4, 18, 22, 1931.
- iWakeland & Haegele, Ida. B. 200, 1934. 26p.
- iWakeland & Rice, Ida. Res. B. 10, 1932. 56p.
- Webster, J. Ec. Ent. 24: 672-676, 1931.
- Webster, J. Ec. Ent. 27: 134-139, 1934.
- Webster, Mass. Fr. Grow. Assoc. Inc. R. 40: 53-70, 1934.
- Webster, N.Y. St. Hort. Soc. P. 79: 33-46, 1934.
- ibWebster & Marshall, Wash. B. 293, 1934. 31p.

- Webster et al, Wash. Ext. B. 185, 1934. 7p.
- Wicks, Ida. Dept. Agr. Bien. R. 6: 30-37, 1930.
- Wicks, Ida. St. Hort. Assoc. P. 35: 24-29, 1930; P. 36: 82-87, 1931; P. 37: 18-21, 1932; P. 38: 104-105, 1933.
- Wicks, Ida. Dept. Agr. Bien. R. 7: 14-16, 1932.
- Wilder, Diamond Walnut News 12(6): 4, 1930.
- Williams, Ohio B. 532: 45-46, 1934.
- Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 238-240, 1932.
- Worthley, Penn. St. Col. B. 258: 39, 1930.
- Worthley, Penn. St. Hort. Assoc. P. 71: 83-89, 1930.
- Worthley, Penn. B. 266: 32, 1931; B. 308: 22, 1934.
- Worthley, J. Ec. Ent. 27: 240-244, '34.
- Yothers & Van Leeuwen, USDA TB 255, 1931. 34p.
- Zappe, Conn. Pom. Soc. P. 41: 23-25, 1932.
- Carpocapsa pomonella—Abundance**
- Headlee, N.J. St. Hort. Soc. P. f. 1931: 46-48.
- Carpocapsa pomonella—"Apple plug"**
- iSiegler & Munger, J. Ec. Ent. 26: 438-445, 1933.
- biSiegler, Munger & Gahan, J. Ec. Ent. 27: 1140-1142, 1934.
- Carpocapsa pomonella—Attrahents, see**
- Carpocapsa pomonella—Traps—Bait—Attrahents**
- Carpocapsa pomonella—Baits, see**
- Carpocapsa pomonella—Traps—Baits**
- †Carpocapsa pomonella—Banding
- Chandler, Ill. St. Acad. Sci. Trans. 26: 140-141, 1934.
- Davis, Ind. Hort. Soc. Trans. 71: 72-76, 1931.
- Farrar, Ill. St. Hort. Soc. Trans. 66: 108-174, 1932.
- Flint, Iowa St. Hort. Soc. Trans. 68: 62-64, 1933.
- Garcia, N.Mex. R. 41: 59-61, 1931.
- Gollehon, Neb. St. Bd. Agr. R. f. 1933: 597-598.
- Haseman & Johnson, Missouri B. 328: 28-29, 1933.
- Hutson, Amer. Fr. Grow. 54(2): 7, 20, 1934.
- iMcWhorter, Ida. St. Hort. Assoc. Conv. 38: 97-103, 1933.
- iMarshall, Ind. C. 180 rev., 1933. 4p.
- Mumford, Ill. R. 45: 135-136, 1932.
- iNewcomer, Oreg. St. Hort. Soc. R. 23: 65, 1932.
- Newcomer, Rolfs & Dean, J. Ec. Ent. 26: 1056-1058, 1933.
- Patton, Kans. St. Hort. Soc. Bien. R. 42: 77-81, 1934.
- iPierstorff & Parks, Ohio Ext. Pl. Dis. & Ins. Notes 2(6), 1931. 4p.
- Prather, Tenn. St. Hort. Soc. P. 28: 40-41, 1932.
- Quaintance & Siegler, USDA FB 1666: 35-36, 1931.
- Raichle, Big "Y" B. 10(5): 2, 1930.
- Ruggles, Minn. Hort. 62: 172, 1934.
- Sherman, Mich. St. Hort. Soc. R. 62: 50-54, 1933.
- Siegler, Ohio St. Hort. Soc. P. 65: 135-138, 1932.
- iSiegler & Munger, USDA YB f. 1934: 160-161.
- Smith, J. Ec. Ent. 23: 464-465, 1930.
- Stanton, Diamond Walnut News 15(2): 5, 1933.
- Worthley, Penn. St. Hort. Assoc. News 8: 13-17, 1931.
- Worthley, Wis. Hort. 22: 192, 1932.
- bWorthley, J. Ec. Ent. 27: 346-352, '34.
- Yocum, Neb. St. Hort. Soc. R. 61: 48-49, 1930.
- biYothers, J. Ec. Ent. 23: 930-936, 1930.
- †Carpocapsa pomonella—Banding—Chemically treated
- biFarrar & Flint, J. Ec. Ent. 26: 364-373, 1933.
- Groh, Kans. St. Hort. Soc. Bien. R. 42: 85-89, 1934.
- iMarshall, Ind. C. 180, 1931. 4p.
- Steiner & Marshall, J. Ec. Ent. 24: 1146-1151, 1931.
- Woodbury, Kans. St. Hort. Soc. Bien. R. 42: 82-84, 1934.
- bWorthley, J. Ec. Ent. 25: 1133-1143, 1932.
- Worthley, Penn. St. Hort. Assoc. P. 73: 14-22, 1932.
- iWorthley, Penn. B. 293: 22-23, 1933.

- Carpocapsa pomonella**—Breeding cages
Haseman & Johnson, Missouri B. 328:
27, 1933.
- Carpocapsa pomonella** — vs. *Laspeyresia molesta*
Hutson, Mich. St. Hort. Soc. R. 61:
99-103, 1932.
- Carpocapsa pomonella**—Cost of control
iSpuler, Dorman & Gillies, Northw. Fr.
Grow. 3(12): 4-5, 9-11, 13, 1931.
iSpuler, Dorman & Gillies, Wash. St.
Hort. Assoc. P. 27: 31-45, 1931.
- Carpocapsa pomonella**—Egg-laying—
Light, effect
Hutchison, Cal. R. f. 1929-1930: 63-64,
1931.
- Carpocapsa pomonella**—Eggs on har-
vested fruit
Newcomer, Better Fruit 24(12): 10, '30.
- †**Carpocapsa pomonella**—Emergence rec-
ords
Burr, Neb. R. 46: 20-21, 1933.
iChase, Northw. Fr. Grow. 4(7): 4-5,
14, 18, 1932.
iKeitt & Fluke, Wis. Hort. 24: 256, '34.
biWorthley, Penn. B. 277, 1932. 19p.
- †**Carpocapsa pomonella**—Experiments
Cutright, Ohio B. 470: 89-91, 1931.
Cutright, Ohio St. Hort. Soc. P. 64: 19-
28, 1931.
Cutright, J. Ec. Ent. 25: 74-77, '32.
Cutright & Dietz, J. Ec. Ent. 26: 392-
401, 1933.
Cutright & Houser, J. Ec. Ent. 26: 380-
383, 1933.
Deaver, Big "Y" B. 10: 4, 1929.
Dorman, Ind. St. Hort. Soc. Trans. 72:
42-45, 1933.
Flint, Amer. Pom. Soc. P. 49: 25-34,
1933.
Flint, Ill. St. Hort. Soc. Trans. 67: 175-
183, 1934.
Gilmer, Kans. St. Hort. Soc. Bien, R.
40: 31-37, 1930.
Harman, J. Ec. Ent. 27: 222-225, 1934.
Headlee, N.J. Dept. Ent. R. f. 1930:
159-160, 1931.
- bNewcomer & Yothers, USDA TB 281,
1932. 29p.
Richardson, Iowa R. f. 1934: 94.
Ross, Ent. Soc. Ont. R. 60: 111-116,
1930.
- Worthley, Penn. St. Hort. Assoc. P. 75:
38-48, 1934.
- Carpocapsa pomonella**—Flight
Deaver, Big "Y" B. 10(5): 3, 1930.
iGolleshon, Neb. St. Bd. Agr. R. f. 1933:
594-599.
iWorthley, J. Ec. Ent. 25: 559-565, '32.
- Carpocapsa pomonella**—Hibernation
Cory & Sanders, J. Ec. Ent. 25: 566-
569, 1932.
Headlee, N.J. R. 51: 142-144, 1930.
- Carpocapsa pomonella**—Instinct
Littooy, Midwest Fruitman 3(11): 3-4,
7, 1930.
- Carpocapsa pomonella**—Larvae
biGinsburg, J. Agr. Res. 46: 1131-1136,
1933.
Hall, Can. Ent. 66: 100-102, 1934.
- Carpocapsa pomonella**—Losses caused by
Big "Y" B. 10(2): 2, 1930.
- Carpocapsa pomonella**—Measuring popu-
lation
Barrett, J. Ec. Ent. 26: 873-879, 1933.
- Carpocapsa pomonella**—Phototropic re-
sponses
Hedrick, N.Y. (Gen.) R. 53: 48-49, '34.
- Carpocapsa pomonella**—Orchard sanita-
tion
Flint, Iowa St. Hort. Trans. 68: 59-62,
1933.
Headlee, Peninsula Hort. Soc. Trans.
46: 89-97, 1932.
iHensill, J. Ec. Ent. 25: 856-859, 1932.
Lobenstein, Neb. St. Bd. Agr. R. f.
1934: 495-500.
Newcomer, Wash. St. Hort. Assoc. P.
30: 66-67, 1934.
Simpson, Md. Agr. Soc. R. 18: 114-120,
1934.
Wright, Diamond Walnut News 12(2):
8, 1930.
- Carpocapsa pomonella**—Oviposition cage
Sazama, J. Ec. Ent. 25: 140-141, 1932.
- Carpocapsa pomonella**—Packing sanita-
tion
Childs, Better Fruit 27(10): 9, 1933.
Davis, Hoosier Hort. 15: 57-58, 1933.
Davis, Ind. Hort. Soc. Trans. 73: 95-
96, 1933.
Troth, Ind. St. Hort. Soc. Trans. 72:
34-37, 1933.

Carpocapsa pomonella—Parasites

Alden & Yeomans, Ga. St. Hort. Soc.

P. 52: 14-16, 1928.

bBarrett, J. Ec. Ent. 1111-1112, 1932.

bCollins, J. Ec. Ent. 27: 379-382, 1934.

iCox, N.Y. (Gen.) TB 188, 1932. 26p.

Garcia, N.Mex. R. 41: 61-62, 1931.

Hensill, J. Ec. Ent. 26: 603, 1933.

List & Davis, Col.-Wyo. Acad. Sci. J. 1(4): 61-62, 1932.

List & Davis, J. Ec. Ent. 25: 981-985, 1932.

List & Davis, Col.-Wyo. Acad. Sci. J. 1(5): 81, 1933.

Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 32, 1930.

Sandsten, Col. R. 46: 14-15, 1933.

Smith, Diamond Walnut News 12(2): 6, 1930.

Carpocapsa pomonella—Pears

Borden, Pac. Rur. Press 126: 355, 1933.

Carpocapsa pomonella—Pruning

Lobenstein, Kans. St. Hort. Soc. Bien. R. 42: 74-77, 1934.

Carpocapsa pomonella—Rearing

Farrar & Flint, J. Ent. 23: 41-44, 1930.

Carpocapsa pomonella—Reproductive system

biAllman, Cal. Univ. Pub. Ent. 5: 135-164, 1930.

Carpocapsa pomonella—Resistance to arsenicals

Haseman & Johnson, Missouri B. 328: 29, 1933.

biHaseman & Meffert, Missouri Res. B. 202, 1933. 11p.

biWebster, J. Ec. Ent. 26: 1018-1021, 1933.

†Carpocapsa pomonella—Sprays

Boone, Ida. St. Hort. Assoc. P. 34: 124-125, 1929.

Boyce & Maxwell, Diamond Walnut News 15(1): 6-7, 1933.

Chase, Mich. St. Hort. Soc. R. 60: 105-107, 1931.

Cooper, Ky. R. 44, pt. 1: 34, 1931.

Cooper, Ky. R. 45, pt. 1: 56-57, 1933.

Cory, Peninsula Hort. Soc. Trans. 44: 60-63, 1930; Trans. 45: 127-133, '31.

Dean, Kans. St. Hort. Soc. Bien. R. 42: 89-93, 1934.

Deaver, Big "Y" B. 10(2): 10, 1930.

Dell, Kans. St. Hort. Soc. Bien. R. 42: 23-26, 1934.

bDriggers & Pepper, J. Ec. Ent. 27: 432-440, 1934.

Dutto, Mich. St. Hort. Soc. R. 61: 26-29, 1932.

Farley, N.J. Agr. 14(6): 9, 1932.

Farrar, Ind. Hort. Soc. Trans. f. 1930: 76-80.

Flint, Amer. Pom. Soc. P. 49: 25-34, 1933.

Flint, Iowa St. Hort. Soc. Trans. 68: 135-139, 1933.

Flint, J. Ec. Ent. 27: 141-143, 1934.

Flint & Chandler, Ill. St. Hort. Soc. Trans. 67: 491-505, 1934.

Gardner, Ill. St. Hort. Soc. Trans. 67: 240-242, 1934.

Gilmer, Kans. St. Hort. Soc. Bien. R. 40: 41-45, 1930.

Gilmer, Missouri St. Hort. Soc. P. f. 1930-1932: 86-91.

Harman, N.Y. St. Hort. Soc. P. 79: 27-32, 1934.

Headlee, N.J. Agr. 15(6): 5, 1933.

iHooper, Diamond Walnut News 15(4): 7, 1933.

Hough, Md. Agr. Soc. R. 18: 110-114, 1934.

Hurt, Peninsula Hort. Soc. Trans. f. 1931: 139-144.

Hutchison, Cal. R. f. 1932-1934: 62-63.

Jones, Missouri St. Hort. Soc. P. f. 1930-1932: 83-85.

iLathrop & Sazama, J. Ec. Ent. 25: 83-101, 1932.

Lobenstein, Neb. St. Bd. Agr. R. f. 1934: 448-457.

Mariatt, USDA Ent. R. f. 1930: 17-19.

Marshall, Ind. St. Hort. Soc. Trans. 72: 16-25, 1933.

Marshall & Groves, Wash. St. Hort. Soc. P. 29: 39-60, 1933.

Mumford, Ill. R. 43: 139, 1930; 44: 141-142, 1931.

iNewcomer, Oreg. St. Hort. Soc. R. 23: 63-66, 1932.

Parrott, N.J. Hort. Soc. P. 78: 5-14, 1933.

iRegan, Cal. Spray-Chem. Corp. R. 7, 1932. 30p.

- †**Carpocapsa pomonella—Sprays** *Cont'd*
 Ricks, Mich. St. Hort. Soc. R. 61: 80-93, 1932.
 iRicks & Toenjes, Mich. Sp. B. 23c, 1933. 32p.
 Ruhmann, B.C. Dept. Agr. R. 24: 140-141, 1930; R. 27: 35-37, 1932.
 Sherman, J. Ec. Ent. 24: 1075-1077, 1931.
 Sherman, Mich. St. Hort. Soc. R. 60: 48-50, 1931; R. 63: 28-29, 1934.
 iSherman, Mich. Sp. B. 221: 8-11, 1932.
 Sherwood, W.Va. Ext. Orch. Spray Serv. Inf. Not. 3, 1933; Inf. Not. 7, 1934.
 iSpuler & Dean, Wash. St. Hort. Assoc. P. 25: 57-88, 1929.
 iSpuler & Dean, J. Ec. Ent. 23: 53-61, 1930.
 iSpuler, et al, Wash. B. 252: 25-29, '31.
 Stearns et al., Peninsula Hort. Soc. Trans. 44: 64-73, 1930; Trans. f. 1931: 123; Trans. 47: 20-28, 1933; Trans. 48: 31-35, 1934.
 Steiner, Hoosier Hort. 12: 53-55, 1930.
 Wakeland, Ida. St. Hort. Assoc. Conv. 39: 28-34, 1934.
 iWebster, Spuler & Dean, Ida. St. Hort. Assoc. P. 35: 104-114, 1930.
 biWorthley, Penn. St. B. 285, 1933. 16p.
 Wright, Diamond Walnut News 15(2): 9, 1933.
 Yocum, Neb. St. Bd. Agr. R. f. 1932: 617-621.
- Carpocapsa pomonella—Sprays and spraying—Arsenicals**
 Burrell, P. Amer. Soc. Hort. Sci. 30: 91-92, 1933.
 biWebster & Marshall, Wash. B. 293, 1934. 31p.
- Carpocapsa pomonella—Sprays—Arsenicals—Substitutes**
 Headlee, Amer. Fr. Grow. Mag. 50(2): 25, 1930.
 Headlee, J. Ec. Ent. 23: 45-53, 1930.
 Headlee, N.J. R. 52: 187-189, 1931.
- Carpocapsa pomonella—Sprays—Barium fluosilicate**
 J. Ec. Ent. 24: 20, 1931.
- Carpocapsa pomonella—Sprays—Calyx**
 Zappe, Conn. Pom. Soc. P. 40: 24-25, 1932.
- Carpocapsa pomonella—Sprays—Calcium arsenate**
 Chapman, N.Y. St. Hort. Soc. P. 79: 204-206, 1934.
 Marshall, Wash. B. 305: 36, 1934.
 Mote & Thompson, Ohio C. Inf. 89, 1933, 8p.
- Carpocapsa pomonella—Sprays—Cryolite**
 biDeLong, Ohio J. Sci. 34: 187-188, 1934.
- Carpocapsa pomonella—Sprays—Dusts**
 bBarrett, J. Ec. Ent. 25: 859-863, 1932.
- Carpocapsa pomonella—Sprays—Fish oil**
 Webster, Northw. Fr. Grow. 6(4): 4, 1934.
 iWebster et al., Wash. St. Hort. Soc. P. 28: 48-67, 1932.
- Carpocapsa pomonella—Sprays—Fluorine compounds**
 Newcomer, USDA Ent. E-285, 1931, 4p.
 bNewcomer & Carter, USDA TB 373, 1933. 23p.
- Carpocapsa pomonella—Sprays—Lead**
 Gilmer, Mo. St. Hort. Soc. P. f. 1930/1932: 86-91.
 Spuler & Dean, Big "Y" B. 10(Extra): 1-5, 1930.
- †**Carpocapsa pomonella—Sprays—Lead arsenate**
 Cleveland, Ohio St. Hort. Soc. P. f. 1932: 139-143.
 bFilmer, J. Ec. Ent. 24: 277-283, 1931.
 Marshall, Eide & Priest, Wash. St. Hort. Assoc. P. 30: 52-64, 1934.
 bMoore, J. Ec. Ent. 25: 550-559, 1932.
 biRose et al., USDA Misc. Pub. 168: 21-22, 1933.
 iSherman, Mich. Sp. B. 221: 12-15, '32.
- †**Carpocapsa pomonella—Sprays—Lead arsenate—Substitutes**
 Childs, Oreg. St. Hort. Soc. R. 26: 85-89, 1934.
 iFromme, W.Va. B. 263: 19-21, 1934.
 Lamerson & Parker, Kans. St. Hort. Soc. Bien. R. 42: 93-99, 1934.
 Newcomer & Carter, Ida. St. Hort. Assoc. P. 36: 161-165, 1931.
- Carpocapsa pomonella—Sprays—Lead arsenate vs. calcium arsenate**
 biChapman et al, J. Ec. Ent. 27: 423-424, 1934.
 Cory, J. Ec. Ent. 27: 509-514, 1934.

- Carpocapsa pomonella—Sprays—Lead arsenate vs. summer oil**
 Cleveland, Midwest Fruitman 5(11): 5, 9, 1932.
 Cleveland, Ohio St. Hort. Soc. P. 65: 139-143, 1932.
- Carpocapsa pomonella—Sprays—Nicotine**
 Hough, J. Ec. Ent. 27: 1102-1103, '34.
 Knight, USDA Bur. Chem. & Soils, R. f. 1934: 7-8.
 bWebster & Marshall, J. Ec. Ent. 27: 873-878, 1934.
- Carpocapsa pomonella—Sprays—Nicotine oil**
 iDeSelle, Wash. St. Hort. Assoc. P. 25: 95-107, 1929.
 Leonard, J. Ec. Ent. 23: 61-75, 1930.
- Carpocapsa pomonella—Sprays—Nicotine tannate**
 Filmer, J. Ec. Ent. 24: 277-283, 1931.
 Headlee, Amer. Fr. Grow. 50(2): 25, 1930.
 Headlee, Peninsula Hort. Soc. Trans. f. 1930: 52-59, 1931.
 bMoore, J. Ec. Ent. 25: 550-559, 1932.
 Moore, J. Ec. Ent. 26: 723-726, 1933.
 J. Ec. Ent. 24: 21-22, 1931.
- Carpocapsa pomonella—Sprays—Nicotine vapor**
 iSmith, Wash. St. Hort. Assoc. P. 30: 72-75, 1934.
 iSmith, Meyer & Persing, J. Ec. Ent. 27: 1192-1195, 1934.
- Carpocapsa pomonella—Sprays—Non-arsenical**
 Hough, Peninsula Hort. Soc. Trans. 48: 12-14, 1934.
 Webster & Marshall, Wash. B. 305: 35, 1934.
- Carpocapsa pomonella—Sprays—Oil**
 Ackerman, Kans. St. Hort. Soc. Bien. R. 42: 17-23, 1934.
 Hutchinson, Cal. R. f. 1929-1930: 64, 1931.
 Knight & Cleveland, J. Ec. Ent. 27: 279-289, 1934.
 iMumford, Ill. R. 45: 136-137, 1932.
 Richardson, Iowa Hort. Soc. Trans. 66: 8-11, 1931.
 Webster et al, Wash. Ext. B. 185: 2-4, 1934.
 J. Ec. Ent. 24: 21, 1931.
- Carpocapsa pomonella—Sprays—Oil—Hybrex**
 iThompson & Worthley, J. Ec. Ent. 26: 1113-1117, 1933.
- Carpocapsa pomonella—Sprays—Oil—Lead arsenate**
 Jardine, Oreg. R. f. 1928-1930: 138.
 Merrill, Amer. Fr. Grow. 52(5/6): 19, 1932.
 Spuler, Northw. Fr. Grow. 2(32/33): 15, 1930.
- Carpocapsa pomonella—Sprays—Oil—Nicotine**
 Sherman, Mich. Sp. B. 221: 21-23, '32.
 J. Ec. Ent. 24: 20-21, 1931.
- Carpocapsa pomonella—Sprays—Oil—Nicotine tannate**
 Farm. J. Phila. 57(11): 12, 1933.
- Carpocapsa pomonella—Sprays—Pine oil spray**
 iThompson & Worthley, J. Ec. Ent. 26: 1112-1117, 1933.
- Carpocapsa pomonella—Sprays—Residue**
 Iddings, Ida. B. 205: 46-48, 1934.
- iOverley, Wash. St. Hort. Assoc. P. 25: 89-94, 1929.**
 Webster, Better Fruit 28(8): 5-6, 1934.
- Carpocapsa pomonella—Sprays—Summer oil**
 Cutright, Ohio St. Hort. Soc. P. 65: 144-148, 1932.
 Cutright, Amer. Pom. Soc. P. 48: 144-148, 1932.
 Davis, Ind. Hort. Soc. Trans. 71: 16-21, 1931.
 Jardine, Oreg. Bien. R. f. 1928-1930: 127-128.
 Sherman, Mich. Sp. B. 221: 17-21, '32.
 iSpuler, Overley & Green, Wash. B. 252: 16-29, 1931.
 Steiner, Hoosier Hort. 12: 53-55, 1930.
 Swartwout, Amer. Soc. Hort. Sci. P. 28: 663-666, 1932.
 Yocum, Neb. St. Hort. Soc. P. 62: 45-48, 1931.
- Carpocapsa pomonella—Sprays—Timing**
 Cleveland, Ind. St. Hort. Soc. Trans. 72: 44-46, 1933.
 Haseman, Mo. B. 272: 61-62, '29.
 Haseman & Johnson, J. Ec. Ent. 25: 849-855, 1932.
 bHeadlee, J. Ec. Ent. 24: 291-296, 1931.

Carpocapsa pomonella—Sprays Cont'd

Pierstorff & Parks, Ohio Pl. Dis. & Ins.
Notes 1(7): 2-4, 1930.

†Carpocapsa pomonella—Traps

Chase, Wash. St. Hort. Soc. P. 28: 38-44, 1932.
Clements, Wash. St. Hort. Soc. P. 28: 45, 1932.
Clements, Ind. Hort. Soc. Trans. 73: 96, 1933.
Fillinger, Kans. Agr. Student 12: 86-87, 1933.
Hutchison, Cal. R. f. 1930-1931: 67, '32.
Kendall, N.H. B. 250: 17, 1930.
Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 48-50, 1930.
iSherman, Mich. Sp. B. 221: 8-11, 1932.
Webster, Wash. St. Hort. Soc. P. 28: 46-47, 1932; P. 30: 50-51, 1934.

†Carpocapsa pomonella—Traps—Bait

Braucher, Diamond Walnut News 16(2): 4, 8, 1934.
Chase, Mich. St. Hort. Soc. R. 60: 105-107, 1931.
Christensen, Wis. B. 428: 106-107, '34.
bEyer, J. Ec. Ent. 24: 998-1001, 1931.
bEyer & Rhodes, J. Ec. Ent. 24: 702-711, 1931.
iGarcia, N.Mex. R. 44: 36-40, 1934.
Hansberry & Richardson, Iowa St. Hort. Soc. Trans. 69: 83-89, 1934.
Haseman, Rocky Mt. Conf. Ent. R. 9: 12-15, 1932.
iHaseman et al, Missouri B. 300: 68-70, 1931; B. 328: 28, 1933.
Kuehner, Wis. Hort. 24(11/12): 284, '34.
iParrott & Collins, J. Ec. Ent. 27: 370-379, 1934.
Patterson, Wis. Hort. 24: 55, 1933.
Prather, Tenn. St. Hort. Soc. P. 28: 40-41, 1932.
Raichle, Big "Y" B. 10(5): 2, 1930.
iRegan, Cal. Spray-Chem. Corp. R. 7, 1932. 30p.
iSnipes, Neb. St. Bd. Agr. R. f. 1934: 446-449.
iYothers, J. Ec. Ent. 23: 576-587, 1930.
iYothers, J. Ec. Ent. 23: 923-929, 1930.

Carpocapsa pomonella—Traps—Bait—At-trahents

Garcia, N.Mex. R. 40: 31-34, 1929; 41: 55-59, 1931; 42: 32-34, 1932.

Yothers, J. Ec. Ent. 23: 729-735, 1930.

Carpocapsa pomonella—Traps—Electric

Hutchison, Cal. R. f. 1930-1931: 67, 1932.

Carpocapsa pomonella—Traps—Hootch pots

Groh, Kans. St. Hort. Soc. Bien. R. 42: 85-89, 1934.
Patton, Kans. St. Hort. Soc. Bien. R. 42: 77-81, 1934.

Carpocapsa pomonella—Traps—Light

Dye, Wis. Hort. 24: 220, 1934.
Eyer, J. Ec. Ent. 27: 722-723, 1934.
iHermes, Hilgardia 7: 263-280, 1932.
biHermes & Ellsworth, J. Ec. Ent. 27: 1058-1059, 1934.
iMartin, Pop. Sci. Month. 123(3): 40-41, 94, 1933.
iParrott & Collins, J. Ec. Ent. 27: 370-379, 1934.

Carpocapsa pomonella and Fire blight

Pierstorff & Parks, Ohio Pl. Dis. & Ins.
Notes 1(7): 1-4, 1930.

Carpocapsa pomonella and Scab

iRicks & Toenjes, Mich. Sp. B. 230, 1933. 32p.

Carpocapsa pomonella and Temperature

iChase, Northw. F. Grow. 4(7): 4-5, 14, 18, 1932.
Cutright, J. Ec. Ent. 24: 81-83, 1931.
Parks, Ohio St. Hort. Soc. P. 66: 49-50, 1933.
Parrott, N.Y. St. Hort. Soc. P. 77: 28-30, 1932.
iSpuler, Dorman & Gillies, Northw. Fr. Grow. 3(12): 4, 1931.

†Carpocapsa pomonella and walnuts

iBoyce, Diamond Walnut News 15(2): 3-4, 1933.
Boyce & Maxwell, Diamond Walnut News 15(1): 6-7, 1933.
Braucher, Diamond Walnut News 16(2): 4, 8, 1934.
Cole, Diamond Walnut News 15(2): 11, 1933.
Kimball, Diamond Walnut News 13(1): 3, 1931; 14(2): 3, 5, 1932; 15(4): 5, 1933.
iLong et al, Diamond Walnut News 15(1): 8, 1933.
Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 20.

- iSmith, Diamond Walnut News 12(2): 5-6, 1930.
- iWilcomb, Diamond Walnut News 14(2): 3, 1932.
- Wright, Diamond Walnut News 12(2): 8, 1930; 14(2): 5, 1932; 15(2): 9, '33.
- Wright, Pac. Rur. Press 125: 371, 1933.
- Carpocapsa pomonella** and weather
 Burr, Neb. R. 48: 18, 1934.
- Darlington, Northw. Fr. Grow. 5(2): 8, 1933.
- Hutson, Mich. Ext. B. 121: 3-4, 1931.
- biSwenk, Neb. St. Hort. Soc. P. 61: 28-33, 1930; P. 62: 109-112, 1931.
- iSwenk, Neb. St. Bd. Agr. R. f. 1932: 583-587.
- Carpocapsa saltitans**
 iHillman, Nature Mag. 16: 226-228, '30.
- Williams, Hawaiian Ent. Soc. P. 7: 358, 1931.
- Carpocoris remotis**
 biBaker, Can. J. Res. 4: 188-190, 1931.
- Carpodisca negligens**
 Goldsworthy, Wis. Cranb. Grow. Assoc. Meet. 46: 50, 1933.
- Carpoglyphus passularum** Her. (Dried fruit mite)*
 Simmons, Reed & McGregor, USDA C. 157: 45-46, 1931.
- Carpophilus dimidiatus** (F.) (Corn sap beetle)*
 Back & Cotton, USDA FB 1260 rev.: 40-41, 1930.
- Marlatt, USDA Ent. R. f. 1930: 62.
- iStansel & Wyche, Tex. B. 466: 20-21, 1932.
- Carpophilus hemipterus** (L.) (Dried fruit beetle)*
 biCaldis, J. Agr. Res. 40: 1042-1051, '30.
- iSimmons, Reed & McGregor, USDA C. 157: 8-26, 1931.
- bSmith & Hansen, Cal. B. 506: 27, 1931.
- Wildman, J. Ec. Ent. 26: 516-517, '33.
- Carpophilus maculatus**
 Bryan, Hawaiian, Ent. Soc. P. 7: 380, 1931.
- Carpophthoromyia amoena**
 Munro, Amer. Mus. Nov. 597: 6, 1933.
- Carposina**
 Mont. St. Bd. Agr. Bien. R. 28, XII-B(pt. 2): 53, 1930.
- Carposina fernaldana**
 Haseman, J. Ec. Ent. 23: 641, 1930.
- Carposina sasakii**
 bClausen, USDA C. 168: 12-13, 1931.
- Carrion flies**, see *Blow flies*
- Carrionia**, *C. flavicollis*
 nMuir, Hawaiian Ent. Soc. P. 7: 476-477, 1931.
- ***Carrot beetle**, see *Ligyris gibbosus* Deg.
- Carrot insects**
 Cutright, J. Ec. Ent. 26: 509, 1933.
- Seamans, Ent. Soc. Ont. R. 61: 29, '31.
- ***Carrot rust fly**, see *Psila rosae* F.
- ***Carrot weevil**, see *Listronotus latiusculus* Boh.
- Carteria lacca** and *Lokombitsika*
 Greene, Plastic products 9(1): 14, 1933.
- Zinsser, Sci. Amer. 142: 483-484, 1930.
- Carynota**—**Key**
 Ball, Ent. Amer. 12 n.s.: 62-64, 1931.
- Caryoborus gonagra**
 Bryan, Hawaiian Ent. Soc. P. 8: 3, '32.
- Caryopemon giganteus**, hieroglyphicus
 Bridwell, J. N.Y. Bot. Gard. 33: 107-108, 1932.
- Carystus coxeyi**
 inBell, J. N.Y. Ent. Soc. 39: 526-527, '31.
- ***Case-bearing clothes moth**, see *Tinea pelionella* L.
- Case-making clothes moth**, see *Tinea pelionella*
- Cassida flaveola**
 Schaeffer, Pan-Pac. Ent. 9: 107, 1933.
- Cassida nebulosa**
 Schaeffer, Pan-Pac. Ent. 9: 107-108, 1933.
- Cassidinae**
 Britton, Conn. B. 344: 167, 1933.
- iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 38, 1934.
- Castnia licus**
 Holloway, Facts about Sugar 25: 830, 1930; 26: 447, 1931.
- bLeonard, Rev. Agr. P.R. 25: 63, 93, '30.
- bWolcott, Ec. Ent. of W. I: 143-146, 1933.
- ***Castor-bean tick**, see *Ixodes ricinus* L.
- ***Cat flea**, see *Ctenocephalides felis*
- Catabena esula**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 145-148, 1934.

- Catalina cherry moth*, see *Melissopus latiferreanus*
- **Catalpa sphinx*, see *Ceratomia catalpae* Bdv.
- Catapiestus indicus*
iGardner, P. Ent. Soc. Wash. 34: 142-145, 1932.
- Catasticta fiiza, forbesia*
in Brown, Ent. News 44: 147-148, 1933.
- Caterpillars and eye infections
Riley & Johannsen, Med. Ent.: 186, '32.
- Cathartus advena*, see *Ahasverus advena*
- Cathartus cassiae*, see *Cathartus quadricollis*
- Cathartus quadricollis*
Cartwright, S.C. B. 266: 11, 1930.
- Catia otho curassavica*
Williams & Bell, Trans. Amer. Ent. Soc. 60: 126, 1934.
- Catia otho egeremet* (Volcanic skipper)
Saunders, N.Y. St. Mus. Hdbk. 13: 242-245, 1932.
- Catoblepna dubia*
Flanders, J. Ec. Ent. 25: 1241, 1932.
- Catocala junctura*
Brower, Bklyn. Ent. Soc. B. 25: 36-38, 1930.
- Catocalae*
iBrower, Ent. News 41: 10-15, 1930.
Brower, Ent. News 45: 155-160, 1934.
- Catolaccus fragariae*
nRohwer, P. Ent. Soc. Wash. 36: 44-45, 1934.
- Catonia* spp.
nBall, Pan-Pac. Ent. 9: 135-138, 1933.
- Catonia haitiensis*
niDozier, Amer. Mus. Nov. 510: 15-16, 1931.
- Catopocerus ulkei*
nBrown, Can. Ent. 65: 215, 1933.
- Catops*
Hatch, J. N.Y. Ent. Soc. 41: 210-225, 1933.
- Catops alsiosus*
Barber, Elisha Mitchell Sci. Soc. J. 46: 263, 1931.
- Catops gratus*, see *Catops alsiosus*
- Catopsilia agarithe*
Hurlbut, Can. Field-Nat. 45: 42, 1931.
- Catopsilia eubule*
bO'Byrne, Psyche 40: 131-136, 1933.
- Catopsilia philea*
Hurlbut, Can. Field-Nat. 45: 42, 1931.
O'Byrne, Bklyn. Ent. Soc. B. 27: 185-186, 1932.
O'Byrne, Ent. News 41: 15, 1931.
Tietz, Ent. News 42: 279, 1931.
- Catorama mexicana*—Parasites
Swezey, Hawaiian Ent. Soc. P. 8: 226, 1933.
- Cattail billbug, see *Calendra pertinax*
- *Cattle biting-louse, see *Bovicola bovis* Nitz.
- Cattle dips, see Dips for cattle
- Cattle flies, see Flies on cattle
- *Cattle follicle mite, see *Demodex bovis*
- Cattle lice
Christie, Ont. Agr. Coll. R. 59: 105-106, 1934.
Shull, Ida. News Letter 16(7): 4, 1932.
Thompson, Ent. Soc. Ont. R. 63: 54-56, 1932.
Thompson, Sci. Agr. 13: 404, 1933.
- Cattle sprays, see Spraying—Cattle
- *Cattle tick, see *Boophilus annulatus* Say
- Cattlefly fly, see *Eurytoma orchidearum*
- Cauliflower insects
Hedrick, N.Y. (Gen.) R. 49: 70, 1930;
R. 50: 65-66, 1931.
- iMcC Campbell, Col. Ext. C. 79-A, 1934-8p.
- Stoutamire, Fla. Dept. Agr. B. n.s. 44: 15-17, 1930.
- Caulophilus latinasus* (Broad-nosed grain weevil)
iBack & Cotton, USDA FB 1260 rev.: 6, 1930.
Barrett, Pan-Pac. Ent. 7: 191, 1931.
- Cauloxenus stygius*
Giovannoli, Bailey, Cave Life of Ky.: 239, 1933.
- Cautethia simitia*
nSchaus, J. Wash. Acad. Sci. 22: 143, '32.
- Cavariella—Key
Gillette & Palmer, Ann. Ent. Soc. Amer. 25: 465, 1932.
- Cave fauna
iBarber, Elisha Mitchell Sci. Soc. J. 46: 259-266, 1931.
Reese, W. Va. Univ. B. ser. 34(15): 39-54, 1934.
Reese, W. Va. Acad. Sci. P. 7: 39-53, '34.
Smith, J. Kans. Ent. Soc. 7: 62-64, '34.

- Cayenne tick, *see* *Amblyomma cajennense*
- Cebrio knausi
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20:
 464-465, 1932.
- Cecidomyia negundinis
 iMcDaniel, Mich. Sp. B. 243: 65, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 77, 1933.
- Cecidomyia ocellaris
 iMcDaniel, Mich. Sp. B. 243: 65, 1933.
- Cecidomyia pyri
 Hedrick, N.Y. (Gen.) R. 50: 59, 1931.
- Cecidomyiidae
 Aaron, Nature Mag. 18: 159, 1931.
 Chadwick, Flor. Rev. 70(1805): 62, '32.
- Cecidomyiidae—Paedogenesis
 Klyver, Pan-Pac. Ent. 8: 9-10, 1931.
- Cecropia insects
 Wheeler & Darlington, Psyche 37: 114-
 116, 1930.
- *Cecropia moth, *see* *Samia cecropia* L.
- Celaenorrhinus bifurcus
 inBell, Amer. Mus. Nov. 745: 1, 1934.
- Celaenorrhinus cynapes 275, punctiger
 274, shema 273-274, similis 274-275
 iWilliams & Bell, Trans. Amer. Ent.
 Soc. 60: 1934.
- Celama sorghiella (Riley) (Sorghum web-
 worm)*
 iHaseman, Missouri B. 320, 1933. 8p.
 Reinhard, Tex. R. 45: 31-32, 1932; 46:
 41-42, 1933; 47: 42-43, 1934.
- Celerio lineata, *see* *Sphinx lineata*
- Celery insects
 iBall, Boyden & Stone, Fla. B. 250,
 1932. 22p.
 Bare, J. Ec. Ent. 27: 720-721, 1934.
 Binkley, Col. B. 407: 21-22, 1934.
 Caesar, Ont. Veg. Grow. Assoc. R. 29:
 33-36, 1934.
 Caffrey, Md. Agr. Soc. R. 19: 276-277,
 1934.
 Essig & Hoskins, Cal. Ext. C. 87: 36-
 37, 1934.
- iGilbert & Popenoe, USDA FB 1371 rev.:
 20-21, 1934.
 Hill, J. Ec. Ent. 26: 148-150, 1933.
 Marlatt, USDA Ent. R. f. 1932: 17;
 R. f. 1933: 21.
 Parker, Va. B. 78: 1050, 1932.
 Stone et al, Fla. B. 251: 7, 1932.
 Stoner & Wisecup, J. Ec. Ent. 23: 644-
 645, 1930.
- Vare, J. Ec. Ent. 27: 180, 1934.
- Wilkinson, Conn. (Storrs) Ext. B. 196:
 17-18, 1933.
- iWisecup & Miller, Fla. Ent. 17: 53-62,
 1933.
- Celery leaf-tyer, *see* *Phlyctaenia rubigalis*
- *Celery looper, *see* *Autographa falcifera*
- *Celery worm, *see* *Papilio polyxenes* F.
- Celithemini—Key
 Klots, N.Y. Acad. Sci. Sci. Surv. P.R.
 14: 30-31, 1932.
- Celithemis sp.
 bByers, Univ. Fla. Pub. Biol. Sci. ser.
 1(1): 260, 1930.
- Celliforma spirifer
 iBrown, J. Wash. Acad. Sci. 24: 532-
 539, 1934.
- Celonites afer
 Bequaert, J. N.Y. Ent. Soc. 39: 133,
 1931.
- Centeter cinerea
 iBade, Gard. Chron. Amer. 37: 16, 1933.
- biClausen, Jaynes & Gardner, USDA TB
 366: 5-7, 1933.
 King, J. Ec. Ent. 24: 455-457, 1931.
 Marlatt, USDA Ent. R. f. 1930: 5; R. f.
 1931: 23; R. f. 1932: 9.
 iRex, N.J. Dept. Agr. C. 242: 24-25, '34.
 Slawter, Pop. Sci. Month. 121: 109, '32
- Centeter unicolor
 biParker, J. Ec. Ent. 27: 486-491, 1934.
- Centipedes
 Chamberlin, Pan-Pac. Ent. 9: 11-24,
 1933.
 Mumford, Ill. R. 42: 151, 1929; R. 43:
 149, 1930; R. 44: 147, 1931.
- Centroclisis minor
 nBanks, Harv. Univ. Inst. Trop. Biol.
 Contrib. 5: 1046, 1930.
- Centrodora speciosissima
 biGahan, USDA Misc. Pub. 174: 124-
 128, 1933.
- Centrogonia speciosa
 nGoding, Amer. Mus. Nov. 421: 18, '30.
- Centronodus denticulus, flavus
 inFunkhouser, J. N.Y. Ent. Soc. 38: 405-
 406, 1930.
- Centronopus—Revision
 biBlaisdell, Trans. Amer. Ent. Soc. 59:
 211-228, 1933.
- Centropitium bellum
 iCan. Ent. 62: 223-224, 1930.

Centropitum convexum

binIde, Can. Ent. 62: 222-223, 1930.

Centropitum intermediale, quaesitum

nMcDunnough, Can. Ent. 63: 87-88, 1931.

Centrotus fasciatus, see Tolania walkeri**Ceophyllus monilis**

bPark, Ann. Ent. Soc. Amer. 25: 85-87, 1932.

Cepgillettea betulaefoliae

iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 898-899, 1931.

Cephaleia caplani

nCockerell, Bklyn. Ent. Soc. B. 28: 186-187, 1933.

Cephalonomia formiciformis

iGahan, Wash. Acad. Sci. J. 21: 213-216, 1931.

Cephalonomia gallicola

biKearns, Ann. Ent. Soc. Amer. 27: 533-541, 1934.

biKearns, J. Ec. Ent. 27: 801-806, 1934.

Cephalonomia meridionalis

Gahan, Wash. Acad. Sci. J. 21: 221, '31.

Cephalonomia peregrina

Ferrière, Hawaiian Ent. Soc. P. 8: 238, 1933.

Swezey, Hawaiian Ent. Soc. P. 8: 226, 1933.

Cephalonomia sp.

Swezey, Hawaiian Ent. Soc. P. 7: 366, 1931.

Cephalonomia tarsalis

Gahan, Wash. Acad. Sci. J. 21: 218-219, 1931.

Swezey, Hawaiian Ent. Soc. P. 8: 31, 1932.

Cephalonomia waterstoni

inGahan, Wash. Acad. Sci. J. 21: 219-221, 1931.

Cephaloon—Revision, C. vandykei

iHopping & Hopping, Pan-Pac. Ent. 10: 64-70, 1934.

Cepheini

nJacot, Bernice Bishop Mus. B. 121: 11, 1934.

Cephennium sp.

Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 24, 1932.

Cephennodes hawaiiicus

Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 229, 1933.

Cephenomyia

iStewart, Penn. Acad. Sci. P. 3: 97, '29,
Stewart, Penn. Bd. Game Com. B. 12:
61-66, 1930.

Cephenomyia nasalis

Buckell, B.C. Ent. Soc. P. 31: 14, 1934.
Marlatt, USDA Ent. R. f. 1931: 75.

Cephenomyia phobifer

iPettit, Mich. Ent. R. f. 1931: 19-20.
Pettit, Mich. R. 44: 269-271, 1931.

Cephenomyia pratti

Bruce, Can. Vet. Dir. Gen. R. f. 1931:
72.

iDixon, Cal. Fish & Game 20(3/4): 103-104, 1934.

Cephenomyia trompi, see Cephenomyia nasalis**Cephus cinctus Nort. (Wheat stems sawfly)***

Atkinson, Sci. Agr. 12: 201, 1931.

biKemp, Sci. Agr. 15: 30-38, 1934.

McMillan & King, Ent. Soc. Ont. R. 60: 26, 1930.

biManson, Que. Soc. Prot. Pl. R. 25/26:
101-106, 1934.

biMex. Agr. & Fomento. Principales
Plagas: 71-72, 1930.

Mitchener & Criddle, Ent. Soc. Ont. R. 60: 24, 1930.

iSanderson, Ins. Pests Farm, ed. 3: 156-158, 1931.

iSchollander, Nat. Underwriter 35(16):
Hail & Tornado Ins. XVI, 1931.

Seamans, Ent. Soc. Ont. R. 60: 65-67,
1930.

bSeamans, Pac. Sci. Cong. 5, P. 5: 3478,
1934.

Strange, Searle Grain Co. Wheat stem
sawfly, 3-4, 1931.

Strickland, Ent. Soc. Ont. R. 60: 30,
1930.

iStrickland, Alberta Ext. B. 24: 47-52,
1933.

Twinn, Que. Soc. Prot. Pl. R. 23/24:
151, 1932.

Twinn, Ent. Soc. Ont. R. 64: 65, 1933;
R. 65: 115, 1934.

Weir, Can. Min. Agr. R. f. 1930-1931:
125.

Cephus cinctus—Loss from

Twinn, Sci. Agr. 10: 755-756, 1930.

Vigor, Sask. Prov. Dept. Agr. R. 24: 18,
1929.

Cephus cinctus—Parasites

Weir, Can. Min. Agr. R. f. 1930-1931: 136; R. f. 1932-1933: 53.

Cephus pygmaeus (L.) (European wheat stem sawfly)*

Hill & Smith, J. Agr. Res. 43: 597-609, 1931.

Cephus pygmaeus—Parasites

J. Ec. Ent. 26: 743, 1933.

Ceracia aurifrons, rondani

nAldrich, P. Ent. Soc. Wash. 35: 9-10, 1933.

Ceraiaella, C. triannulata

nHebard, Trans. Amer. Ent. Soc. 59: 47-50, 1933.

Cerambycidae

Champlain & Knull, Ent. News 43: 253-257, 1932.

Fisher, PUSNM 80(22), 1932. 93p.

Linsley, Ent. News 45: 161-165, 181-185, 1934.

Linsley, Pan-Pac. Ent. 10: 59-63, 107-110, 1934.

Linsley & Martin, Ent. News 44: 178-183, 1933.

Perkins, Hawaiian Ent. Soc. P. 7: 415-418, 1931.

Schaeffer, Bklyn. Ent. Soc. B. 27: 152, 1932.

Wallace et al, Ind. Dept. Conserv. R. 14: 59, 1932.

Williams, Ent. News 42: 222-226, 1931.

Cerambycidae—Host plants

Beaulne, Nat. Can. 59: 196-203, 219-222, 1932.

Swezey, Hawaiian Ent. Soc. P. 8: 127-140, 1932.

Cerambycidae—Mouth parts

biGoldman, Trans. Amer. Ent. Soc. 59: 85-102, 1933.

Ceramica picta (Zebra caterpillar)*

iCaesar, Ont. Dept. Agr. B. 359: 39-40, 1931.

Caesar & Ross, Ent. Soc. Ont. R. 60: 19, 1930.

iDustan, Can. Dept. Agr. Ent. B. 32: 46-47, 1932.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 12-13, 1934.

Maheux & Petch, Ent. Soc. Ont. R. 60: 16, 1929.

Cerapachys (Syscia) seini

inMann, J. Wash. Acad. Sci. 21: 440-441, 1931.

Ceraphron beneficiens

Kuwana, Pac. Sci. Cong. 4, P. 4: 379-384, 1930.

Cerataphini—Key

Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 241, 1934.

Cerataphis lataniae

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 29, 1931.

Ceratina spp.

nCockerell, Amer. Mus. Nov. 547: 12, 1932; Nov. 736, 4 p. 1934.

Cockerell, Bklyn. Ent. Soc. B. 27: 16, 1932.

Ceratitis (Pterandrus) anonae

Munro, Amer. Mus. Nov. 597: 10, '33.

†Ceratitis capitata Wied. (Mediterranean fruitfly)*

Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(6): 38, 1931.

Back, Pan-Pac. Union B. n.s. 128: 14, 1930.

Barre, S.C. R. 43: 60, 1930.

Berly, S.C. C. 43: 25-26, 1930.

Catoni, P.R. Com. Agr. Inf. An. f. 1929-1930: 132-133.

iCrawford, Hawaii Ext. B. 9: 10-13, '31.

Davis, Ind. Hort. Soc. Trans. 69: 59, 1930.

Dean, Cal. Dept. Agr. Sp. Pub. 115: 71, 1932.

De Kruif, Country Gent. 95: 12-14, '30.

iDoane, Common Pests: 185-186, 1931.

Dunn, Amer. J. Pharm. 104: 673, 1932.

Fleury, Cal. Dept. Agr. Sp. Pub. 115: 70-71, 1932.

Fracker, USDA YB f. 1931: 372-375.

Garcia, N.Mex. R. 40: 38-39, 1929.

Gibson et al, J. Ec. Ent. 24: 35-36, '31.

biGjullin, Ecology 12: 248-258, 1931.

Greene, J. Agr. Res. 38: 492, 1929.

Hamner, Fla. St. Hort. Soc. P. 43: 159-164, 1930.

Hawkins, USDA YB f. 1934: 288-289.

Hecke, Cal. Agr. Mo. B. 19: 7-8, 87; 179-180, 1930.

Hecke, Cal. Cit. 15: 419, 1930.

Holland, Fla. St. Hort. Soc. P. 43: 165-173, 1930.

†*Ceratitis capitata* Wied. *Cont'd*

- iHoward, Insect Menace: 322-335, '31.
 Hume, Fla. St. Hort. Soc. P. 43: 174-176, 1930.
 Hyde, Fruit & Garden, 46(8): 13, 1930.
 Hyde, USDA Off. Rec. 9(5): 4, 1930;
 9(6): 1, 8, 1930; 10(6): 52, 1931.
 Hyde, USDA YB f. 1931: 55-56.
 Illingworth, Hawaiian Ent. Soc. P. 8:
 12, 1932.
 Jacobsen, Cal. Agr. Mo. B. 18: 734-735, 1929.
 Knight, Cal. Cit. 16: 239, 1931.
 Lahille, La Hacienda 28: 241, 1933.
 McBride, Mid-Pac. Mag. 42: 333-334, 1931.
 McLean, Cal. Dept. Agr. Sp. Pub. 115:
 72-75, 1932.
 McMichael, Cal. Dept. Agr. Sp. Pub. 115: 80-81, 1932.
 Mackie, Cal. Agr. Mo. B. 18: 751-754, 1929; B. 19: 107-115, 832-833, 1930.
 Marlatt, N.Y. Farm. P. f. 1929-1930: 13-20.
 Marlatt, USDA Ent. R. f. 1930: 41-43; R. f. 1931: 50-53.
 Marlow & Jong, J. Ec. Ent. 27: 914-919, 1934.
 Miller & McBride, J. Ec. Ent. 24: 1119-1131, 1931.
 biMiller et al, USDA TB 350, 1933. 20p.
 Newell, Fla. Ext. Ser. R. f. 1929: 12-13.
 Newell, Assoc. South. Agr. Work. P. 31: 86-97, 1930.
 Newell, Fla. R. f. 1930: 7.
 Newell, Fla. St. Hort. Soc. P. 43: 149-158, 1930.
 Newell, J. Ec. Ent. 23: 512-535, 1930.
 O'Kane, J. Ec. Ent. 24: 506-507, 1931.
 biPope, Hawaii, B. 71: 12-13, 1934.
 Quayle, Cal. Cit. 15: 447, 483, 1930.
 Quayle, Cal. Agr. Mo. B. 20: 136-140, 1931.
 iQuayle, La Hacienda 26: 166-167, '31.
 Quayle, J. Ec. Ent. 24: 1064-1066, '31.
 biQuayle, Cal. B. 542: 57-59, 1932.
 Rohwer, P. Ent. Soc. Wash. 36: 50, '34.
 Ryan, Cal. Agr. Mo. B. 19: 373-374, '30.
 Ryan, Los Angeles Co. Com. Agr. R. f. 1932: 6.
 iSanderson, Ins. Pests Farm ed. 3: 474-476, 1931.

iSmith, Cal. Agr. Mo. B. 19: 245-246, 1930.

Strong, J. Ec. Ent. 23: 509-512, 1930.

Strong, USDA PQCA R. f. 1931: 3-6.

Swezey, Hawaiian Ent. Soc. P. 7: 383, 1931; P. 8: 241, 1933.

Villagran, Grace Log 15: 47, 1932.

iWahlberg, Cit. Leaves 10(12): 7, 14, 1930.

iWatson & Berger, Fla. Ext. B. 67: 109-110, 1932.

Wilder, Cit. Leaves 10(3): 7, 1930.

Wilder, Hawaiian Ent. Soc. P. 8: 387, 1934.

Yeomans, Ga. St. Bd. Ent. B. 75: 4-5, 1931.

Yothers & Mason, Hawaiian Ent. Soc. P. 7: 364, 1931.

S.C. St. Dept. Agr. Comm. & Ind. YB f. 1930: 41.

USDA YB f. 1932: 69-70.

Ceratitis capitata—Appropriation

Hecke, Cal. Agr. Mo. B. 19: 180-181, '30.

Cit. Ind. 11(3): 12, 1930; 11(5): 12, '30.

iFla. Grow. 38(1): 12, 1930; 38(4): 30, 1930.

Nat. Nursery. 38(5): 8, 1930.

Pac. Rur. Press 119: 108, 1930.

Ceratitis capitata—California

Wilson, Cal. Dept. Agr. Sp. Pub. 115: 79-80, 1932.

Ceratitis capitata—Cost of control

Wood, Cal. Dept. Agr. Sp. Pub. 115: 123, 1932.

Ceratitis capitata—Detected by stethoscope

Market Grow. J. 47: 497, 1930.

†*Ceratitis capitata*—Florida

Booth, Cal. Cit. 15: 142-143, 1930.

Fleury, Cal. Agr. Mo. B. 19: 824, 1930.

Howey, Fla. Farm. 32(3): 3, 1930.

Hyde, Cit. Ind. 2(7): 23, 1930.

bMcLaine, Ent. Soc. Ont. R. 60: 133-137, 1929.

Newell, Fla. St. Pl. Bd. Bien. R. 9: 10-11, 1933.

O'Kane, Fla. St. Hort. Soc. P. 43: 143-148, 1930.

Strong, Cal. Cit. 15: 556, 1930.

Yonge, Fla. St. Pl. Bd. Mo. B. 15: 45-125, 1931.

USDA Off. Rec. 10: 115, 1931.

- Ceratitis capitata—Food—Artificial**
 Marlowe, J. Ec. Ent. 27: 1100, 1934.
- Ceratitis capitata—Fruit—Treatment**
 Hyde, Fla. Grow. 38(10): 18, 1930.
 Mackie, Cal. Agr. Mo. B. 19: 835-836, 1930.
 bMason & McBride, J. Ec. Ent. 27: 897-902, 1934.
 J. Ec. Ent. 27: 730, 1934.
- Ceratitis capitata—Hawaii**
 Barrett, Fla. Grow. 38(1): 26, 1930.
 Barrett, Fla. Grow. 38(5): 29, 1930.
 bMason, Hawaiian Ent. Soc. P. 8: 163-178, 1932.
 Moulton, Cal. Agr. Mo. B. 20: 416, '31.
- Ceratitis capitata—Hearings**
 Adams, Fla. Grow. 38(4): 7-8, 28-30, 1930.
 iWalker, Fla. Grow. 38(5): 14, 16, 18-19, 22-24, 1930.
- Ceratitis capitata—Host plants**
 Yonge, Fla. St. Pl. Bd. Mo. B. 15: 85-89, 1931.
- Ceratitis capitata—Inspection**
 Barre, S.C. St. Crop Pest Comm. R. f. 1930: 14-15.
 Daley, Fla. Grow. 39(5): 18-20, 1931.
 Stanley, Fla. Grow. 38: 14-24, 1930.
 Cal. Cit. 15: 540, 1930.
- Ceratitis capitata—Larvae—Extractor**
 Rohwer, P. Ent. Soc. Wash. 34: 157, 1932.
- Ceratitis capitata—Losses**
 Adams, Fla. Grow. 39(2): 12, 22-23, 24, 1931; 40: 1: 19, 1932.
 C.L.L., Flor. Exch. 79(12): 26, 1932.
 Better Fruit 26(11): 6, 11, 1932.
 Fla. Grow. 39(4): 16-17, 20, 1931; 40(4): 18-19, 1932; 41(4): 14, 1933.
- Ceratitis capitata—Mails**
 Ryan, Cal. Agr. Mo. B. 19: 523, 1930.
 Wood, Cal. Dept. Agr. Sp. Pub. 115: 65, 1932.
 Cit. Leaves 10(8): 30, 1930.
- Ceratitis capitata—New board**
 Cal. Cult. 74: 131, 1930.
 USDA Off. Rec. 9(4): 1-2, 1930.
- Ceratitis capitata—Oviposition—Punctures**
 biKeck, J. Ec. Ent. 27: 908-914, 1934.
- Ceratitis capitata—"Planting" in affected areas**
 Mayo, Fla. Dept. Agr. Quar. B. 40(1): 70-74, 1930.
 Newell, Nat. Nurserym. 38(6): 6, 1930.
- Ceratitis capitata—Parasites**
 Barrett, Fla. Grow. 38(1): 12, 1930.
 bMason, J. Ec. Ent. 27: 891-897, 1934.
 Willard, Pac. Sci. Cong. 4, P. 4: 137, 1930.
 bWillard, USDA C. 109, 1930. 12p.
 Cit. Ind. 11(11): 9, 1930.
- †Ceratitis capitata—Quarantine**
 Adams, Fla. Grow. 38(12): 14-15, 1930.
 Bague, P.R. Com. Agr. & Labor. R. f. 1929: 641, 1930.
 Bartlett, Cal. Dept. Agr. Sp. Pub. 115: 81-82, 1932.
 Dunlap, Rev. de Agr. Cuba 12(6): 18, 1930.
 Eisenhower & Chew, USDA Misc. Pub. 88: 18-19, 1930.
 Hyde, Cal. Cit. 15: 571, 193.
 Hyde, Cit. Ind. 11(10): 28-29, 1930.
 Hyde, Fla. St. Pl. Bd. Mo. B. 14: 240-241, 1930.
 Hyde, USDA Off. Rec. 9(34): 1, 7, '30.
 Hyde, USDA PQCA SRA 105: 155, '30.
 Jacobsen, Cal. Agr. Mo. B. 19: 797-798, 1930.
 Marlatt, Fla. St. Pl. Bd. Mo. B. 14: 232-233, 1930.
 Molinet, Rev. de Agr. Cuba 12(6): 71-72, 1930.
 Newell, Fla. St. Pl. Bd. Bien. R. 10: 20-21, 1934.
 Strong, Rev. de Agr. Cuba 12(6): 20, 1930.
 Strong, USDA PQCA R. f. 1930: 3-11; PQCA R. f. 1931: 3-8.
 Yonge, Fla. St. Pl. Bd. Mo. B. 15: 107-123, 1931.
 Cal. Dept. Agr. Sp. Pub. 115: 105, '32.
 Fla. St. Pl. Bd. Mo. B. 14: 213-229, '30.
 P.R. Com. Agr. & Com. Inf. An. f. 1930-1931: 95-97.
 USDA Misc. Pub. 88: 18-19, 1930.
 USDA Off. Rec. 9(10): 1, 8, 1930; 9(41): 1-2, 7, 1930.
 USDA PQCA SRA 104: 97-106, 1930; 108: 133, 1931.

Ceratitis capitata—Sterilization of hosts

iHawkins, Tex. Cit. 9(1): 7-8, 21-22, 1932.

Hyde, Fla. Grow. 38(10): 18, 1930.

Mackie, Cal. Agr. Mo. B. 19: 835-836, 1930.

J. Ec. Ent. 27: 730, 1934.

Ceratitis capitata—Survey

Ryan, Cal. Cit. 16: 167, 1931.

Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 23.

Urbahns, Cal. Cit. 15: 289, 1930.

Wolff, Cit. Leaves 10(9): 26, 1930.

Fla. Grow. 41(2): 18, 1933.

U.S. Cong. House Com. of Agr. Mediterranean Fruit Fly. Hearing Jan. 28 & Feb. 5, 1931. 64p.

Ceratitis capitata—Temperature, Effect

Darby & Kapp, Science, n.s. 80(2065 sup.): 7, 1934.

Marlatt, USDA Ent. R. f. 1932: 6-7.

bMason & McBride, J. Ec. Ent. 27: 897-902, 1934.

Ceratitis (Pardalaspis) lentigera, nana

Munro, Amer. Mus. Nov. 597: 8-10, 1933.

Ceratocapsus spp.

nKnight, Bklyn. Ent. Soc. B. 25: 187-198, 1930.

nBlatchley, Trans. Amer. Ent. Soc. 60: 14-15, 1934.

Ceratocombus vagans

Torre-Bueno, Bklyn. Ent. Soc. B. 25: 144, 1930.

Ceratomegilla see Coleomegilla**Ceratonia catalpae (Bdv.) (Catalpa sphinx)***

iDavis, Ind. Ext. B. 168: 10-11, 1930.

iMcDaniel, Mich. Sp. B. 243: 47, 1933.

iMusgrave, Purdue Agr. 27: 78, 1933.

biSoraci, N.J. Dept. Agr. C. 243: 16-17, 1934.

Ceratonia catalpae—As fish bait

iOutdoor Ind. 1(7): 3, 1934.

Ceratonia igualana

nSchaus, Wash. Acad. Sci. J. 22: 139-140, 1932.

Ceratonia undulosa

Howe, J. Kans. Ent. Soc. 6: 104-105, 1933.

Ceratomyiella, bicincta, orbitalis

nReinhard, PUSNM 83: 9-43, 1934.

Ceratonyssus occidentalis

inEwing, PUSNM 82(30): 10-11, 1933.

Ceratophylli (Siphonaptera)

Stewart, Can. Ent. 62: 152, 1930.

Ceratophyllus acutus

Riley & Johannsen, Med. Ent.: 392-393, 1932.

Ceratophyllus fasciatus (Rat flea)

bDyer et al, U.S. Pub. Health R. 47: 931-932, 1932.

iEssig, Hist. of Ent.: 228, 1931.

Herrick and Griswold, N.Y. (C) Ext. B. 202, rev.: 46-47, 1934.

Riley & Johannsen, Med. Ent. 359, 391-392, 1932.

Ceratophyllus fasciatus and disease

Williams, Soap 8(3): 99-101, 111, 1932.

Ceratophyllus fasciatus and Plague

Cecil, Text-book of Med. ed. 3: 514, 1934.

Farmer's Advoc. 69: 326, 1934.

Ceratophyllus fasciatus and Typhus

iDyer, et al, J. Infect. Dis. 51(1): 143-161, 1932.

bDyer, et al, U.S. Pub. Health R. 46: 334-338, 1931; R. 47: 931-932, 1932.

Kemp, J. Amer. Med. Assoc. 97: 775-777, 1931.

Mooser, Castaneds & Zinsser, J. Expt. Med. 55: 307-323, 1932.

O'Hara, La. St. Bd. Health Quar. B. 23(3): 12, 1932.

Rumreich et al, U.S. Pub. Health R. 46: 472, 1931.

Ceratophyllus idius

Whitehead, J. Ec. Ent. 26: 293, 1933.

Ceratophyllus londinensis

iEskey, U.S. Pub. Health R. 45: 2092-2093, 1930; R. 47: 2197-2200, 1932.

Ceratophyllus niger (Fox) (Western chicken flea)*

Essig, Hist. of Ent.: 229-230, 1931.

Ceratophyllus saundersi—Parasites

Whitehead, Sci. Agr. 13: 753-754, 1933.

Ceratophyllus vison—Mink

bHansen, Amer. Fur Breeder 5(7): 5, '33.

Ceratopogon spp. (Punkies) (No-see-ums)

iMetcalf, Ill. St. Acad. Sci. Trans. 23: 267, 1931.

Metcalf, N.Y. St. Mus. B. 289: 24-29, 1932.

- Ceratopogoninae (Punkies, No-see-ums)**
 Bequaert, Ent. News 42: 82, 1931.
 biMatheson, Med. Ent.: 309, 1932.
- Ceratoppia bipilis brevicuspis**
 nJacot, P. Ent. Soc. Wash. 36: 260, 1934.
- Ceraturgopsis oklahomensis**
 nBromley, J. N.Y. Ent. Soc. 42: 225-226, 1934.
- Cerceris sp.**
 Brooks, W.Va. Acad. Sci. P. 4: 61-65, 1930.
- Cercopidae**
 bDoering, J. Kans. Ent. Soc. 3: 53-64, 81-87, 101-102, 1930; 4: 48-51, 1931.
 Doering, Rocky Mt. Conf. Ent. R. 9: 6, 1932.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 48, 1934.
 Jardine, Oreg. Bien. R. f. 1928-1929: 90, 1930.
 Nace, For. Leaves 22: 117-118, 1930.
 iWeed, Insect Ways 211-213: 1930.
- Cercyon—Bibliography**
 Blackwelder, Pan-Pac. Ent. 8: 30-32, 1931.
- Cercyonis alope nephele**
 iSaunders, N.Y. St. Mus. Hdbk. 13: 165-170, 1932.
- Cercyonis stenele—Lost species**
 Martin, Pan-Pac. Ent. 8: 189, 1932.
- Cereal insects**
 Bruner & Arango, Cuba, Santiago de las Vegas C. 73: 3-4, 1931.
 Cartwright, Blanchard & Wilson, Cal. Agr. Mo. B. 22: 156-160, 1933.
 Ford & Covert, S.D. Ext. C. 320: 15, 1933.
 Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash. D.C., Doc. Material 2: 203-207, 1930.
 Larrimer, J. Ec. Ent. 24: 651-656, '31.
 Larrimer, USDA YB f. 1933: 216-218.
 iStrickland, Alberta Univ. Coll. Agr. B. 24, 1933. 58p.
 Strong, USDA Ent. R. f. 1934: 7-9.
- Cereal pests**
 biMex. Agr. & Fomento. Principales Plagas: 60-82, 1930.
- Ceresa albidosparsa**
 biYothers, USDA TB 402: 32-34, 1934.
- Ceresa basalis (Basal or dark-colored tree hopper)**
 iNewcomer, USDA C. 270: 25-27, 1933.
 iYothers, Northw. Fr. Grow. 6(6): 4, 10, 1934.
 biYothers, USDA TB 402: 19-30, 1934.
- Ceresa bubalus (F.) (Buffalo treehopper)***
 iCaesar, Ont. B. 356: 45-46, 1930.
 Chambers & Thompson, Wis. Dept. Agr. B. 123: 10, 1931; B. 145: 17, '33.
 iChristensen, Wis. B. 421: 81-83, 1932.
 Fluke, Wis. Hort. 22: 256, 1932.
 iFluke, Wis. Hort. 23: 263, 1933.
 Ladd, N.Y. (Gen.) R. 52: 66-69, 1933.
 iNewcomer, USDA C. 270: 25-27, 1933.
 iPettit & Hutson, Mich. C.B. 137: 57-58, 1931.
 iQuaintance & Siegler, USDA FB 1270 rev.: 77-78, 1931.
 Regan, Wash. St. Hort. Assoc. P. 25: 133-134, 1929.
 iRoss, Can. Dept. Agr. B. 129: 51, 1930.
 Twinn, Ent. Soc. Ont. R. 64: 71, 1933; R. 65: 120, 1934.
 iYothers, Northw. Fr. Grow. 6(6): 4, 10, 1934.
 biYothers, USDA TB 402: 30-32, 1934.
- Cerlogaster panamensis**
 nCurran, Amer. Mus. Nov. 416: 10, '30.
- Ceromasia lepida, see Lydela stabulens grisea**
- Ceromasia senilis, see Lydela stabulens grisea**
- Ceromasia sphenophori**
 Holloway, Facts about Sugar 26: 210, 1931.
 bLeonard, Rev. Agr. P.R. 25: 63, 1930.
 Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 48, 1932.
 Pemberton, Facts about Sugar 27: 484, 1932.
 Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 425-426, 1931.
 Swezey, Hawaiian Ent. Soc. P. 7: 391, 1931.
 Swezey, Mid-Pac. Mag. 42: 325, 1931.
 Swezey, Hawaiian Ent. Soc. P. 8: 219, 1933.
 Vandenberg, Guam R. f. 1928: 24, '31.
 biWilliams, Handb. Insects... Hawaiian Sugar Cane Fields: 215-216, 294-296, 1931.

- Ceroplastes ceriferus* (Japanese or Mexican wax scale)
 Gardner, J. Ent. & Zool. 26: 30-33, '34.
 Watson & Berger, Fla. Ext. B. 67: 35-36, 1932.
- Ceroplastes cirripediformis* Comst. (Barnacle scale)*
 iEssig, Hist. of Ent.: 138-139, 1931.
 iWatson & Berger, Fla. Ext. B. 67: 35, 1932.
- Ceroplastes dozieri*
 niCockerell & Buckner, Amer. Mus. Nov. 424: 6-7, 1930.
- Ceroplastes floridensis* Comst. (Florida wax scale)*
 iWatson & Berger, Fla. Ext. B. 67: 33-35, 1932.
- Ceroplastes giganteus*
 niDozier, Amer. Mus. Nov. 495: 2, 1931.
- Ceroplastes irregularis*
 iEssig, Sci. Month. 38: 182-183, 1934.
- Ceroplastes rubens*
 Flanders, Cit. Leaves 12 (4): 16, 1932.
- Cerotainia* spp.
 nCurran, Amer. Mus. Nov. 425: 12-15, 1930.
- Cerotainiops, C. rufiventris*
 nCurran, Amer. Mus. Nov. 415: 11-12, 1930.
- Cerotoma ruficornis*
 Gonzalez, Rev. de Agr. Cuba 14(3): 21, 1932.
- Cerotoma trifurcata* (Forst.) (Bean leaf beetle)*
 iBoving, P. Ent. Soc. Wash. 32: 51-58, 1930.
 Brannen, Ark. B. 297: 57, 1934.
 biEddy & Nettles, S.C. B. 265, 1930. 25p.
 iGilbert & Popenoe, USDA FB 1371 rev.: 11, 1930; 1371 rev.: 11, 1934.
 biSely, Ark. B. 248, 1930. 20p.
- Cerotopia corneimacula*
 Muesebeck, PUSNM 79(16): 12-13, '31.
- Cerura candida*
 Lemmer, Bklyn. Ent. Soc. B. 27: 177, 1932.
- Cerura multscripta canadensis*
 nMcDunnough, Can. Ent. 64: 39, 1932.
- Cetoniinae*
 iChapin, Ann. Ent. Soc. Amer. 25: 308-311, 1932.
 Smith, Fla. Ent. 14: 28-35, 1930.
- Ceuthophilus agassizii*
 Buckell, B.C. Ent. Soc. P. 27: 49-50, 1930.
- Ceuthophilus aztecus*
 Hebard, Trans. Amer. Ent. Soc. 58: 350, 1932.
- Ceuthophilus elegans*
 nHebard, Ill. Nat. Hist. Surv. B. 20: 237-241, 1934.
- Ceuthophilus (Hemiudopsylla) zenicularis*
 Hebard, Trans. Amer. Ent. Soc. 58: 349-350, 1932.
- Ceuthophilus latipes*
 Hebard, Trans. Amer. Ent. Soc. 58: 352-353, 1932.
- Ceuthophilus maculatus*
 Hebard, Minn. TB. 85: 48-50, 1932.
- Ceuthophilus* sp. (Camel cricket)
 iHenderson, Utah C. 96: 35-36, 1931.
- Ceuthophilus stygius*
 Barber, Elisha Mitchell Sci. Soc. J. 46: 262, 1931.
- Ceuthophilus variegatus*
 Hebard, Trans. Amer. Ent. Soc. 58: 351, 1932.
- Ceuthophilus williamsoni*
 nHebard, Ill. Nat. Hist. Surv. B. 20: 230-234, 1934.
- Ceutorhynchus rapae* (Cabbage curculio)*
 Knull, Ent. News 43: 65, 1932.
- Ceutorhynchus* spp.
 nBrown, Can. Ent. 63: 119-122, 1931.
- Ceutorhynchus tau*
 Hyslop, J. Ec. Ent. 27: 563, 1934.
 Smith, J. Ec. Ent. 25: 1110-1111, 1932.
- Chaerephon lindseyi*
 inBell, Amer. Mus. Nov. 555: 4-6, 1932.
- Chaetania, C. sauteri*
 nTownsend, J. N.Y. Ent. Soc. 40: 445-446, 1932.
- Chaetexorista javana*
 Collins, Mass. Comm. Conserv. St. For. R. f. 1932: 28.
 Collins, J. Ec. Ent. 26: 54-57, 1933.
 bProper, J. Agr. Res. 48: 374, 1934.
 J. Ec. Ent. 23: 478, 1930.
- Chaetocnema confinis* (Sweet potato flea beetle)*
 Compton, Ill. C. 391: 43, 1932.
- Chaetocnema pulicaria* (Corn flea beetle)*
 Strong, USDA Ent. R. f. 1934: 9.

- Chaetodacus cucurbitae*, *see* *Bactrocera cucurbitae*
- Chaetodacus ferrugineus*, *see* *Dacus ferrugineus*
- Chaetodacus tryoni*, *see* *Dacus tryoni*
- Chaetogaedia monticola*
Swezey, Hawaiian Ent. Soc. P. 8: 382, '34.
- Chaetonalia*
nCurran, Fam. & Genera of North Amer. Diptera 465, 1934.
- Chaetostricha phaseoli*
nDozier, P. Ent. Soc. Wash. 34: 31-32, 1932.
- *Chaff scale, *see* *Parlatoria pergandii*
- *Chain-spotted geometer, *see* *Cingilia catenaria*
- Chaitophorina*
Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 915, 1931.
- Chaitophorini*
Tissot, Fla. Ent. 16: 17-24, 1932.
- Chaitophorus longipes*
inTissot, Fla. Ent. 16: 17-21, 1932.
- Chaitophorus neglectus*
inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 161-163, 1931.
- Chaitophorus populella*
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 917-918, 1931.
iSweetman, J. Ec. Ent. 24: 893-896, '31.
- Chaitophorus populi, populifoliae*
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 917-919, 1931.
- Chaitophorus pusillus*
inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 163-164, 1931.
- Chaitophorus quercicola*
Granovsky, P. Ent. Soc. Wash. 35: 32-33, 1933.
- Chaitophorus viminalis*
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 919-920, 1931.
- Chalcididae*
Flanders, J. Ec. Ent. 27: 861-862, 1934.
Steps, Bees, Wasps, Ants: 183-192, '32.
- Chalcidoidea*
inDozier, P. Ent. Soc. Wash. 35: 85-100, 1933.
biGahan, USDA Misc. Pub. 174: 25-145, 1933.
Gahan, Habana Univ. Mem. Soc. Poey. 8: 125-134, 1934.
- Chalcodermus aeneus* (Cowpea curculio)*
Arant, Ala. R. 42: 48-49, 1931; R. 43: 22-23, 1932; R. 44: 28-29, 1933.
Brooks Watson & Mowry, Fla. Co-op. Ext. B. 63: 50, 1932.
iFolsom, USDA FB 1688: 22-23, 1932.
iWatson, Fla. B. 232: 60-61, 90, 1931.
- Chalcodermus martini*
nVan Dyke, Pan-Pac. Ent. 6: 163-164, 1930.
- Chalcolepidius erythroloma*
Bryan, Hawaiian Ent. Soc. P. 8: 22, '32.
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 382, 1934.
- Chalcolepidius snowi*
Smyth, J. Kans. Ent. Soc. 7: 109, '34.
- Chalcosicya, C. maestrensis*
inBlake, Bklyn. Ent. Soc. B. 25: 215-217, 1930.
- Chalepus dorsalis* (Locust leaf miner)*
Britton, Conn. B. 344: 126, 1933.
Davis, Ind. Ext. B. 168: 36, 1930.
biSoraci, N.J. Dept. Agr. C. 243: 27-28, 1934.
- Chalybion coeruleum*, *see* *Chalybion cyaneum*
- Chalybion cyaneum*
iAaron, Nature Mag. 16(1): 38-42, '30.
Fernald, Ann. Ent. Soc. Amer. 24: 450, 1931.
Frost, Ent. News 44: 51, 1933.
Palmer, Ill. St. Acad. Sci. Trans. 26: 136, 1934.
Williams, Hawaiian Ent. Soc. P. 8: 17, 1932: 239, 1933.
iSci. News Letter 24: 285, 1933.
- *Changa, *see* *Scapteriscus vicinus*
- Chaoborus lacustris*—Traps
iEssig, J. Ec. Ent. 23: 997-999, 1930.
Herms, Agr. Engin. 13: 292, 1932.
biHerms & Ellsworth, J. Ec. Ent. 27: 1056-1058, 1934.
- Chaoborus punctipennis, trivittatus*
Walden, Conn. B. 315: 587-588, 1930.
- Chapmanella, C. negrosensis*
inWheeler, Psyche 37: 41-44, 1930.
- Charadromyia torrenticola*
Illingworth, Hawaiian Ent. Soc. P. 7: 408, 1931.
- Charidryas nycteis* (Silver crescent)
Saunders, N.Y. St. Mus. Hbk. 13: 118-120, 1932.

Chauliognathus marginatus

Dozier, Del. B. 162: 33, 1929.

iSchmucker, Wagner Free Inst. Sci. B. 8: 94-101, 1933.

Chauliognathus omissus

nFall, Can. Ent. 62: 254, 1930.

Chauliognathus pennsylvanicus (Pennsylvania soldier beetle)

Britton, Conn. B. 349: 446, 1933.

iRockenbach, P. Iowa Acad. Sci. 37: 393-396, 1931.

iSchmucker, Wagner Free Inst. Sci. B. 8: 94-101, 1933.

Winburn & Painter, J. Kans. Ent. Soc. 5: 22-23, 1932.

Checkered skipper, see *Hesperia tessellata***Cheese fly, see *Piophilha casei******Cheese skipper, see *Piophilha casei*****Cheiloneurus elegans**

biGahan, USDA Misc. Pub. 174: 60-64, 1933.

Cheilosis browni

nCurran, Can. Ent. 63: 96-97, 1931.

Cheletia sp.

Baker, USDA C. 295: 9, 1933.

Cheliferidae

Chamberlin, Can. Ent. 63: 289-294, 1931; 64: 17-21, 35-39, 1932.

Chelinidea spp.

Hamlin, Ann. Ent. Soc. Amer. 25: 95-99, 106-107, 1932.

Chelonethida

Van Duzee, Pan-Pac. Ent. 8: 144, 1932.

Chelonus annulipes

biVance, USDA TB 294, 1932, 48p.

Wishart & Thomas, Ent. Soc. Ont. R. 63: 40-41, 1932.

biWishart & Van Steenburgh, Can. Ent. 66: 121-125, 1934.

Chelonus (Chelonella) audeoudiae

nMuesebeck, P. Ent. Soc. Wash. 35: 199-200, 1933.

Chelonus (Chelonella) pectinophorae

nCushman, PUSNM 79(14): 11-12, 1932.

Chelonus sericeus—Oviposition

iCushman, P. Ent. Soc. Wash. 35: 7-8, 1933.

Chelonus texanus

bBlanchard & Conger, J. Ec. Ent. 25: 1065, 1932.

iBruner, Rev. de Agr. Cuba 14(22): 96, 1934.

Jones, Tex. R. 47: 53, 1934.

bWilson, Fla. Ent. 17(1): 4, 1933.

Chelymorphia phytophagica luteata
nSchaeffer, Pan-Pac. Ent. 9: 108, 1933.**Chermes abietis, see *Adelges abietis*****Chermes pinicorticis**

Bailey, Cult. Conifers North Amer.: 343-344, 1933.

Sheaffer, Ind. Dept. Conserv. Div. Ent. Pub. 103: 18, 1930.

Chermes strobilobius

iBailey, Cult. Conifers North Amer., 351-352, 1933.

Chermidae, see *Psyllidae***Cherry and pear slugworm, see *Eriocampoides limacina******Cherry casebearer, see *Coleophora pruniella******Cherry fruitfly, see *Rhagoletis cingulata******Cherry fruitworm, see *Grapholitha packardii*****Cherry insects**

Baker, Wash. St. Hort. Soc. P. 26: 207-208, 1930.

iCaesar, Ont. B. 356: 57-62, 1930.

Deitz, N.Y. St. Inst. Appl'd Agr. L. I. Controlling pests of tree fruits and grapes: 26, 1929.

Eddy et al., Ky. B. 353, 231: 1934.

Granovsky, Wis. Stencil B. 96, 1930, 7p.

Hanson, P. W. Wash. Hort. Assoc. 25: 45-47, 1934.

Hartzel, Conn. Pom. Soc. P. 44: 94-106, 1934.

List, Seed World 30(4): 38, 1931.

Quaintance & Siegler, USDA FB 1666: 82-83, 1931.

Williams, Neb. St. Hort. Soc. P. 61: 99-100, 1930.

Cherry leaf beetle, see *Galerucella cavicollis***Cherry maggot, see *Rhagoletis cingulata******Cherry scale, see *Aspidiotus forbesi*****Cherry slug, see *Eriocampoides limacina******Chestnut weevil, see *Curculio rectus*****Chibchella femorata**

inHebard, Trans. Amer. Ent. Soc. 59: 57-58, 1933.

Chick-pea insects

Rev. Unidas 48(2): 54-55, 1932.

- *Chicken body louse, *see* *Eomenacanthus stramineus*
 Chicken flea, *see* *Echidnophaga gallinacea*
 *Chicken head louse, *see* *Lipeurus heterographus*
 *Chicken mite, *see* *Dermanyssus gallinae*
 *Chigger, *see* *Trombicula irritans*
 *Chigoe, *see* *Tunga penetrans*
Chilo infuscatellus
 Holloway, Facts about Sugar 25: 830, 1930.
Chilo loftini
 Flanders, J. Ec. Ent. 23: 604, 1930.
 Holloway, Facts about Sugar 25: 830, 1930.
 bLeonard, Rev. Agr. P.R. 25: 63, 1930.
Chilo plejadellus (Rice stalk borer)*
 Douglas, La. Bien. R. f. 1930-1931: 13.
Chilo plejadellus—Parasites
 Fullaway, Hawaiian For. & Agr. 27: 48-49, 1930.
 Fullaway, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 79-81, 1931.
Chilo simplex (Asiatic rice borer)*
 Howard, Hist. of Appl'd Ent.: 344, '30.
 Kuwana, Pac. Sci. Cong. P. 4: 306-314, 1930.
 Whitney, Hawaiian Ent. Soc. P. 7: 372, 1931.
 Cal. Dept. Agr. Sp. Pub. 115: 177, '32.
 Hawaiian Ent. Soc. P. 7: 337, 1931.
Chilo simplex—Parasites
 Hadden, Hawaiian Pl. Rec. 34: 25-32, 1930.
 Kuwana, Pac. Sci. Cong. P. 4: 379-384, 1930.
Chilo spp.
 Hecke, Cal. Dept. Agr. Sp. Pub. 92: 8-9, 1929.
Chilocampyla psidiella
 nBusck, Ent. Amer. n.s. 13: 172-173, '33.
Chilocorus bivulnerus (Twice-stabbed ladybeetle)*
 Alden, Ga. St. Bd. Ent. B. 71: 19, 1930.
 Balch, For. Chron. 7: 67, 1931.
 biBrown, J. Ec. Ent. 27: 330, 1934.
 iClark & Friend, Tex. Cit. 9(6): 8, 1932.
 bEasterling, Ohio J. Sci. 34: 136, 1934.
 Gill, Ga. St. Ent. B. 77: 42, 1933.
 iMozzette, USDA FB 1654: 41, 1931.
 iWatson & Berger, Fla. Ext. B. 67: 17, 1932.
Chilocorus cacti
 iBruner, Rev. de Agr. Cuba 12(4): 13, '30.
 iOtero, Rev. de Agr. Cuba 15(5): 46, '34.
Chilocorus platycephalus
 Otero, Rev. de Agr. Cuba 15(5): 47, '34.
Chilocorus similis
 Essig, Hist. of Ent.: 289, 1931.
Chilocorus stigma, *see* *Chilocorus bivulnerus*
Chilomenes sexmaculata
 Essig, Hist. of Ent.: 288, 1931.
Chilopoda
 Chamberlin, Pan-Pac. Ent. 7: 65-69, 1930.
 biHilton, J. Ent. & Zool. 22: 105-115, '30.
 biMatheson, Med. Ent.: 443-444, 1932.
Chimarocephala pacifica incisa
 Hebard, Trans. Amer. Ent. Soc. 57: 119, 1931.
Chimarra lucia
 inBetten, N.Y. St. Mus. B. 292: 175, '34.
Chin bot fly, *see* *Gastrophilus nasalis*
Chinaia, C. bella
 inBruner & Metcalf, Bklyn. Ent. Soc. B. 29: 120-124, 1934.
Chinaria, C. mexicana
 inDavis, J. N.Y. Ent. Soc. 42: 52-54, '34.
 *Chinch bug, *see* *Blissus leucopterus*
 Chinese grasshopper, *see* *Oryza chinensis*
 Chinese ladybeetle, *see* *Leis conformis*, *L. dimidiata*
 *Chinese mantis, *see* *Tenodera sinensis*
 Chinese rose beetle, *see* *Adoretus sinicus*
Chion cinctus
 iMozzette et al., USDA FB 1654: 53-54, 1931.
Chionaemopsis quadrfasciatus
 nCockerell & LeVeqe, Amer. Nat. 65: 354-355, 1931.
Chionaspis americana (Elm scurfy scale)*
 iDavis, Ind. Ext. B. 168: 27-28, 1930.
 Drake & Guthrie, Iowa Dept. Agr. YB 31: 29, 1931.
Chionaspis biclavus
 McDaniel, Mich. Sp. B. 214: 61-62, 1931.
Chionaspis citri
 Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(5): 53, 1931.
 iSchultz, La Hacienda 28: 140, 1933.
 iWatson & Berger, Fla. Ext. B. 67: 30, 1932.

- Chionaspis euonymi (Euonymus scale)***
 iBritton, Conn. B. 344: 108, 1933.
 Chapman et al., J. Ec. Ent. 24: 764-765, 1931.
 Felt, J. Ec. Ent. 26: 50, 1933.
 iSoraci, N.J. Dept. Agr. C. 243: 24-25, 1934.
 Walker Anderson, Peninsula Hort. Soc. Trans. 46: 24, 1932.
- Chionaspis furfura (Scurfy scale)***
 Aull & Dean, J. Ec. Ent. 26: 912-913, 1933.
 Chambers & Thompson, Wis. Dept. Agr. B. 123: 17, 1931.
 iChambers & Thompson, Wis. Dept. Agr. B. 145: 23, 1933.
 Hartzell, Farm Res. 1(3): 5, 9, 1934.
 Hartzell & Parrott, N.Y. (Gen.) B. 636: 20-21, 1933.
 Ladd, N.Y. (Gen.) R. 52: 66-69, 1933.
 iMunro & Riddle, N.D. C. 42 rev.: 53, 1933.
 iQuaintance & Siegler, USDA FB 1270 rev.: 74-75, 1931.
 biSoraci, N.J. Dept. Agr. C. 243: 20-21, 1934.
- Chionaspis pinifoliae (Pine needle scale)***
 Aamodt, Minn. Hort. 60: 102, 1932.
 Bailey, Cult. Conifers North Amer.: 342-343, 1933.
 Britton, Conn. B. 344: 146, 1933.
 Chambers, Wis. Hort. 22: 208, 1932.
 iChambers & Thompson, Wis. Dept. Agr. B. 123: 41-42, 1931; B. 145: 58, 1933.
 iDavis, Ind. Ext. B. 168: 28, 1930.
 iDrake & Guthrie, Iowa Dept. Agr. YB 31: 28-29, 1931.
 biEasterling, Ohio J. Sci. 34: 134-135, 1934.
 Heriot, B.C. Ent. Soc. P. 28: 11-12, '31.
 biHerrick, N.Y. (C.) B. 515: 3-11, 1931.
 Richardson, J. Ec. Ent. 23: 753-758, 1930.
 Ruggles, J. Ec. Ent. 24: 115-119, 1931.
 biSoraci, N.J. Dept. Agr. C. 243: 23-24, 1934.
 bTurner, Conn. B. 315: 578-581, 1930.
 Twinn, Ent. Soc. Ont. R. 64: 75, 1933; R. 65: 124, 1934.
 Wallace et al, Ind. Dept. Conserv. R. 13: 50-51, 1931; R. 14: 52, 1933.
- Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1931: 24-25, 1932.
 bYates, J. Ec. Ent. 26: 989-994, 1933.
- Chironomidae**
 Bill, Psyche 39: 68, 1932.
 Hall et al., Ent. News 44: 29-32, 1933.
 biKing & Beams, J. Morph. 56: 577-591, 1934.
 Mann, N.Y. (C.) R. 43(pt. 2): 44, 1931.
 Riley & Johannsen, Med. Ent.: 289-308, 1932.
 Thompson, Ent. Soc. Ont. R. 60: 96-99, 1930.
- Chironomus artifex**
 nCurran, BAMNH 61: 32, 1931.
- Chironomus bulbosa**
 nGerry, Psyche 40: 97, 1933.
- Chironomus jamaicensis**
 nGerry, Psyche 40: 96-97, 1933.
- Chironomus lobiferus**
 Hubbell, Ann. Ent. Soc. Amer. 25: 503-504, 1932.
- Chironomus plumosus**
 biJohnson & Munger, Ecology 11: 110-126, 1930.
- Chironomus pseudofasciata**
 bnGerry, Psyche, 39: 70-71, 1932.
- Chironomus tuxis**
 nCurran, BAMNH 61: 31, 1931.
- Chironomus varipennis**
 bGerry, Psyche 39: 70, 1932.
- Chirothripoides dendropogonus**
 inWatts, Ann. Ent. Soc. Amer. 27: 542-544, 1934.
- Chirothrips zanthius**
 nHood, J. N.Y. Ent. Soc. 41: 408-409, 1933.
- Chlaenius crestonensis**
 nBrown, Can. Ent. 65: 43-44, 1933.
- Chlaenius leucoscelis**
 Darlington, Pan-Pac. Ent. 10: 115-118, 1934.
- Chlaenogramma gueneei**
 nClark, New Eng. Zool. Club P. 13: 39, 1932.
- Chlaenogramma undata undata**
 Clark, New Eng. Zool. Club P. 12: 83, 1931.
- Chlamydatus associatus**
 Tate, J. Ec. Ent. 26: 1173, 1933.
- Chlamys plicata**
 Phipps, Maine B. 356: 129, 1931.

- Chloridea**, *see* **Heliothis**
- Chloridolum loochocanum**
nGressitt, Pan-Pac. Ent. 9: 163-164, '33.
- Chlorion (Ammobia) cubensis**
Dow, Psyche 39: 9, 1932.
- Chlorion (Chlorion) cyaneum**
Fernald, Ann. Ent. Soc. Amer. 24: 439-440, 1931.
- Chlorion (Ammobia) dubitatum**
Dow, Psyche 39: 8-9, 1932.
- Chlorion (Isodontia) harrisi**
Swezey, Hawaiian Ent. Soc. P. 7: 393, 1931.
- Chlorion ichneumonea**
Abbott, Iowa Acad. Sci. P. 38: 255-258, 1931.
- Chlorita flavescens**
bClausen, USDA C. 168: 26, 1931.
- Chlorochlamys chloroleucaria**
iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 29-30, 1934.
- Chlorochroa sayi (Say's stinkbug)***
biBaker, Can. J. Res. 4: 187-188, 1931.
Strand, Mont. B. 294: 29, 1934.
iStrand, Mont. Farm. 22(5): 3, 1934.
- Chlorochroa uhleri**
iBaker, Can. J. Res. 4: 187, 1931.
- Chlorolydella, C. cafrariae**
nTownsend, J. N.Y. Ent. Soc. 30: 473-474, 1932.
- Chloroperla**
biClaassen, Plecoptera Nymphs of America: 63-64, 1931.
- Chlorophorus annularis (Bamboo borer)**
Sasser, USDA Off. Rec. 10: 35, 264, 1931.
- Chlorophryno**
nTownsend, J. N.Y. Ent. Soc. 40: 478, 1932.
- Chloropisca glabra**
iKnowlton, Utah Leaf. 41: 3, 1934.
- Chloropisca marianapolitana**
nOuellet, Nat. Can. 61: 320-323, 1934.
- Chlorops surda**
nCurran, BAMNH 61: 79, 1931.
- Chlorotettix acus**
inDeLong & Davidson, J. N.Y. Ent. Soc. 42: 223, 1934.
- Chlorotettix spp.**
inBrown, Univ. Kans. Sci. B. 21: 235-255, 1933.
- Chlorrhynchomyia, C. clausa**
nTownsend, J. N.Y. Ent. Soc. 40: 440, 1932.
- Chlorocoris aemulus**
nVan Duzee, Pan-Pac. Ent. 8: 93-94, 1931.
- Cholus wattsi**
Johnson, Rev. Agr. P.R. 26: 9, 1931.
- Choranthus**
bEaton, Ann. Ent. Soc. Amer. 25: 23-24, 1932.
- Choranthus lilliae**
inBell, Ent. News 42: 220-222, 1931.
- Choreutis augustella**
inClarke, Can. Ent. 65: 91-92, 1933.
- Choreutis leptilonella**
Busck, Ent. Amer. n.s. 13: 186, 1933.
- Choriopetes caprae**
Babcock & Boughton, Tex. R. 45: 200, 1932.
- Choriopetes cuniculi**
iSchwartz & Shook, USDA FB 1568, rev.: 3-4, 1931.
- Choriopetes equi**
iCameron, Can. Dept. Agr. B. 152: 22, 1931.
iMartin, Vet. Med. 25: 316-319, 1930.
Schwartz et al, USDA C. 148: 44-45, 1933.
- Choriopetes ovis**
Stevenson, Common Animal Parasites Inj. to Sheep in Eastern Canada: 42, 1931.
- Chorisoneura spp.**
inHebard, Trans. Amer. Ent. Soc. 59: 16-17, 108-110, 1933.
inRehn, Trans. Amer. Ent. Soc. 58: 133-135, 1932.
- Chorizagrotis auxiliaris (Grote) (Army cutworm)***
Cook, Can. Ent. 62: 149-150, 267, '30.
Cooley, Mont. R. 36: 85, 1929.
bCrumb, Bklyn. Ent. Soc. B. 27: 82, '32.
Grimes, Kans. Bien. R. 7: 103, 1934.
biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
Pepper, Can. Ent. 64: 241-242, 1932.
biPepper, J. Ec. Ent. 25: 1128-1133, '32.
iSeamans, Can. Dept. Agr. Pam. n.s. 102, 1929, 8p.
bSeamans, Pac. Sci. Cong. 5, P. 5: 3476-3477, 1934.

- Chorizagrotis auxiliaris** (Grote) *Cont'd*
 iSmith, J. Kans. Ent. Soc. 7: 45-46, '34.
 Strand, Mont. B. 269: 8, 1932.
 bStrickland, Alberta Ext. B. 24: 33-35, 1933.
 Twinn, Ent. Soc. Ont. R. 65: 114, 1934.
- Chorthippus curtipennis**, *see* **Chorthippus longicornis**
- Chorthippus longicornis**
 bCriddle, World's Grain Exhib. & Conf. Can. 1933: 490.
 iHenderson, Utah C. 96: 24-25, 1931.
- Chortinus, C. bequaerti**
 nAldrich, P. Ent. Soc. Wash. 34: 23-25, 1932.
- Chortophaga viridifasciata**
 bHorsfall, Dowell & Palm, J. Kans. Ent. Soc. 6: 103, 1933.
 biKleinman, J. Cell. & Comp. Physiol. 4: 221-235, 1933.
 biPayne, J. Morph. 54: 321-345, 1933.
- Chortophila brassicae**, *see* **Hylemya brassicae**
- Chortophila hyoscyami**, *see* **Pegomyia hyoscyami**
- Chramesus chapuisi**
 Knull, Ent. News 45: 211, 1934.
- Chremon**
 inRehn, Trans. Amer. Ent. Soc. 56: 87-92, 1930.
- Chremon repentinus**
 iArndt & Dozier, P.R. Dept. Agr. J. 15: 325-335, 1931.
 inRehn, Trans. Amer. Ent. Soc. 56: 88-92, 1930.
- Chresmoda obscura**
 bCarpenter, Carnegie Mus. Ann. 21: 118-119, 1932.
- Chromaphis juglandicola** (Kltb.) (Walnut aphid)
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 897-898, 1931.
 Hoener, Better Fruit 24(3): 9-10, 1930.
 Kimball, Diamond Walnut News 13(1): 3, 1931; 15(4): 5, 1933; 16(3): 15, '34.
 Kimball, Cal. Cult. 81: 446, 1934.
 Newcomer, USDA C. 270: 62, 1933.
 Tubbs, Diamond Walnut News 16(2): 7-8, 1934.
 iWilcomb, Diamond Walnut News, 14(2): 3, 1932.
- Wright, Diamond Walnut News 12(3): 7, 1930; 15(2): 2, 1933.
 Wright, Pac. Rur. Press, 120: 61, 1930; 126: 73, 1933.
 Wright, Cal. Agr. Mo. B. 22: 166-169, 1933.
- Chromatonotus quarequae**
 inHebard, Trans. Amer. Ent. Soc. 59: 114-115, 1933.
- Chrysanthemum gall midge**, *see* **Diarthronomyia hypogaea** Loew.
- Chrysanthemum insects**
 Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 28-29, 1930.
 H.W.S., Flor. Exch. 80(17): 28, 1932.
 List, J. Ec. Ent. 25: 412, 1932.
 iMcDaniel, Mich. Quar. B. 17(1): 23-24, 1934.
 Poesch, Flor. Exch. 80(20): 14-16, '32.
 Weigel, So. Flor. 38(2): 7-8, 1934; 38(3): 6-7, 1934.
- *Chrysanthemum leaf miner**, *see* **Phytomyza chrysanthemi** Kowarz
- Chrysanthemum midge**, *see* **Diarthronomyia hypogaea**
- Chrysis extraniens**
 Illingworth, Hawaiian Ent. Soc. P. 7: 353, 1931.
- Chrysis (Holo-chrysis) pacifica**
 iHicks, Ent. News 44: 206-209, 1933.
- Chrysis (Tetrachrysis) pellucidula**
 bHicks, Univ. Col. Studies 21: 267, 1934.
- Chrysobothris boharti**
 nVan Dyke, Ent. News 45: 89-90, 1934.
- Chrysobothris canadensis**
 nChamberlin, Pan-Pac. Ent. 10: 37-38, 1934.
- Chrysobothris cupreohumeralis**
 nVan Dyke, Ent. News 45: 65-66, 1934.
- †Chrysobothris femorata** (Oliv.) (Flat-headed apple tree borer)*
 Alden, Ga. St. Bd. Ent. B. 73: 22-24, 1930.
 Bentley, Tenn. St. Hort. Soc. 25: 89-91, 1930.
 Boillot, Missouri St. Bd. Agr. B. 28(2): 30, 1930.
 Britton, Conn. B. 344: 74, 1933.
 Burkett, Tex. Dept. Agr. B. 111: 206-207, 1932.
 iChambers & Thompson, Wis. Dept. Agr. B. 123: 11, 1931; B. 145: 18, '33.

- Davis, Ind. Ext. B. 168: 17-18, 1930.
 Gardner, Mich. R. f. 1931-1932: 31.
 Harris, Iowa Hort. Soc. Trans. 67: 23-25, 1932.
 Hutson, Mich. Quar. B. 14: 28-29, '31.
 Hutson, Ent. Soc. Ont. R. 62: 46-47, 1932.
 iHutson, Mich. Sp. B. 244: 29-30, 1933.
 Liston, Kans. Ent. Comm. Bien. R. 14: 7, 1934.
 Lockwood, Pac. Rur. Press 122: 34, '31.
 iMcDaniel, Mich. Sp. B. 238: 17-19, 1933.
 Middleton, Nat. Shade Tree Conf. P. 8: 25, 1932.
 iMoznette, et al., USDA FB 1654: 42-46, 1931.
 Munro & Fox, N. & S. Dak. Hort. 5: 92, 1933.
 Pettit & Hutson, Mich. C. B. 137: 52-53, 1931.
 Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(9): 2-3, 1930.
 Porter, North. Nut Grow. Assoc. R. 23: 80, 1932.
 iQuaintance & Siegler, USDA FB 1270 rev.: 83-85, 1931.
 iRoss, Can. Dept. Agr. B. 129: 43, 1930.
 Sanderson, Ins. Pests Farm ed. 3: 376-378, 1931.
 Stuckey, Ga. R. 46: 38, 1934.
 Talbert, Amer. Fr. Grow. Mag. 50(8): 6, 1930.
 Turner, Engin. News-Rec. 111: 159-160, 178, 1933.
 Wallace, Ind. YB f. 1934: 601-602.
Chrysobothris fragariae
 nFisher, P. Ent. Soc. Wash. 32: 149-152, 1930.
 Hyslop, J. Ec. Ent. 27: 561, 1934.
Chrysobothris haitiensis
 Fisher, Can. Ent. 62: 7-8, 1930.
Chrysobothris mali (Horn) (Pacific flat-headed borer)*
 Lockwood, Cal. Agr. Mo. B. 18: 769, 1929.
Chrysobothris nixa
 Burke, Cal. Agr. Mo. B. 21: 367-368, 1932.
Chrysobothris oregona
 nChamberlin, Pan-Pac. Ent. 10: 38, '34.
Chrysobothris sexsignata
 Knull, Ent. News 45: 208, 1934.
Chrysobothris spp.
 iChamberlin, Pan-Pac. Ent. 10: 38-42, 1934.
 Hamilton, Nat. Shade Tree Conf. P. 9: 66, 1933.
Chrysobothris verdigripennis
 Kingsbury, Psyche 37: 177, 1930.
Chrysocharis cubensis
 nGahan, Ann. Ent. Soc. Amer. 25: 748-750, 1932.
Chrysocharis laricinellae
 Dowden, Ann. Ent. Soc. Amer. 27: 601-602, 1934.
Chrysocharis pallipes
 Gahan, Ann. Ent. Soc. Amer. 25: 748, 1932.
Chrysocharis sp.
 Dowden, Ann. Ent. Soc. Amer. 27: 602-603, 1934.
Chrysochraon abdominalis, see Neopodis mopsis
Chrysochus auratus
 Britton, Conn. B. 327: 473, 1931.
 bBritton, Conn. B. 360: 471-472, 1934.
 biWilson, J. N.Y. Ent. Soc. 42: 65-85, 1934.
Chrysoclista linneella
 Hyslop, J. Ec. Ent. 27: 560, 1934.
Chrysolus brevicornis
 inVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 68, 1933.
Chrysomela auripennis cyanea
 nSchaeffer, J. N.Y. Ent. Soc. 41: 479-480, 1933.
Chrysomela basilaris
 Schaeffer, J. N.Y. Ent. Soc. 41: 479, 1933.
Chrysomela interrupta
 iMcDaniel, Mich. Sp. B. 243: 9-10, '33.
Chrysomela scripta (Cottonwood leaf beetle)*
 Guthrie, Pan-Pac. Ent. 7: 107-109, '31.
 iMunro & Riddle, N.D. C. 42 rev.: 28-29, 1933.
 biSoraci, N.J. Dept. Agr. C. 243: 30-31, 1934.
 Tillyard, Pac. Sci. Cong. 5, P. 5: 3554, 1934.
Chrysomela tremulae
 Twinn, Ent. Soc. Ont. R. 64: 77, 1933.

***Chrysomela tremulae* Cont'd**

Twinn, Ent. Soc. Ont. R. 65: 126, 1934.

Chrysomelidae

Blake, Bklyn. Ent. Soc. B. 25: 209-223, 1930.

iBlake, Bklyn. Ent. Soc. B. 29: 45-56, 1934.

Hatch & Beller, Pan-Pac. Ent. 8: 102-108, 1932.

Powell, Ent. News 43: 92-97, 1932.

Schaeffer, J. N.Y. Ent. Soc. 41: 297-325, 457-480, 1933.

Trippel, Bklyn. Ent. Soc. B. 29: 74-76, 1934.

Wallace et al., Ind. Dept. Conserv. R. 14: 54, 1932.

Chrysomphalus agavis

Cunningham, Bermuda Dept. Agr. R. f. 1931: 50-51, 1933.

†*Chrysomphalus aonidium* (Florida red scale)*

bDodge & Smith, Amer. Iris Soc. B. 35: 40, 1930.

Gardner, J. Ent. & Zool. 26: 31-33, '34.

McDaniel, Mich. Sp. B. 214: 59-60, '31.

Mackie, Cal. Agr. Mo. B. 23: 401, 1934.

Pope, Hawaii B. 71: 14, 1934.

Sanderson, Ins. Pests Farm, ed. 3: 460, 1931.

iSchultz, La Hacienda, 28: 140, 1933.

iWatson & Berger, Fla. Ext. B. 67: 24-26, 1932.

Yothers & Miller, Cit. Ind. 15(1): 7, 1934.

†*Chrysomphalus aurantii* (Mask.) (California red scale)*

Bartlett, Cal. Agr. Sp. Pub. 115: 148-149, 1932.

iBingham, Tex. Cit. 8(12): 9-10, 1932.

iBliss et al, J. Ec. Ent. 24: 1222-1229, 1931.

iClark, Tex. Cit. 7(1): 9, 25, 34, 1930; 8(7): 10, 1931.

ibClark, Tex. C. 67: 41-42, 1933.

iClark & Friend, Tex. B. 455, 1932, 35p.

iClark & Friend, Tex. Cit. 9(5): 9, 16-17, 1932; 9(6): 7-8, 12, 16, 1932;

9(7): 7-8, 16, 1933; 9(8): 9, 16-18, 1933.

bEbeling, J. Ec. Ent. 25: 1007-1012, '32.

Essig, Hist. of Ent.: 156, 1931.

Flanders, Cit. Leaves 12(4): 16, 1932.

Gardner, J. Ent. & Zool. 26: 29-33, '34.

McDaniel, Mich. Sp. B. 214: 60, 1931.

Marlatt, USDA Ent. R. f. 1932: 6-7; R. f. 1933: 9-10.

ibMex. Agr. & Fomento, Principales Plagas: 94-96, 1930.

biNel, Hilgardia 7: 417-466, 1933.

Olmedo, Cal. Agr. Sp. Pub. 115: 126, 1932.

Pope, Hawaii B. 71: 14, 1934.

biQuayle, Cal. B. 542, 1932, 22 p.

Quayle, Cal. Cit. 18: 216, 225-227, '33.

biQuayle & Ebeling, Cal. B. 583, 1934, 22p.

Ryan, Los Angeles Co. Com. Agr. R. f.

1931: 17-18; R. f. 1932: 10.

Smith, Cal. Cit. 16: 310, 344-345, 1931.

bSmith, J. Ec. Ent. 25: 988-990, 1932.

Volck & Hunt, Cal. Spray-Chem. Corp.

Res. B. July 1931: 5-8.

Watson & Berger, Fla. Ext. B. 67: 26-27, 1932.

***Chrysomphalus aurantii*—Fumigation**

iClark & Friend, Tex. Cit. 9: 6, 12, 16, 1932.

biMoore, J. Ec. Ent. 27: 1042-1055, 1934.

Thomason, Cit. Leaves 14(9): 16, 1934.

Wilcomb, Pac. Rur. Press 127: 115, '34.

***Chrysomphalus aurantii*—Hydrocyanic acid gas**

Eberling, Cal. Agr. Mo. B. 20: 669-672, 1931.

Mackie, Cal. Agr. Mo. B. 19: 845, 1931.

biMoore, J. Ec. Ent. 26: 1140-1161, 1933.

iQuayle & Rohrbough, J. Ec. Ent. 27: 1083-1095, 1934.

iStickney & Yust, J. Agr. Res. 46: 437-447, 1933.

***Chrysomphalus aurantii*—Oil sprays**

iClark & Friend, Tex. Cit. 9(8): 9, 16-18, 1933.

bEbeling, J. Ec. Ent. 25: 1007-1012, '32.

biRohrbough, Pl. Physiol. 9: 699, 1934.

Smith, Annual Cit. Inst. Edinburg Coll. (Texas) P. 2: 141-142, 1933.

Smith & Ebeling, Cal. Cit. 16: 410, 448, 1931.

***Chrysomphalus aurantii*—Parasites**

Flanders, J. Ec. Ent. 27: 723-724, 1934.

iSmith, Cal. Cit. 19: 263, 280-282, 1934.

iSmith, Cit. Leaves 14(7): 5-8, 14, 16, 1934.

- Chrysomphalus aurantii**—Population density
Ebeling, J. Ec. Ent. 26: 851-854, 1933.
- Chrysomphalus aurantii**—Resistant
Knight, J. Ent. & Zool. 24(1): 1, 1932.
biMoore, J. Ec. Ent. 26: 1140-1161, '33.
biQuayle, Cal. B. 542: 68-69, 1932.
biWebster, J. Ec. Ent. 26: 1017-1018, 1933.
- Chrysomphalus aurantii**—Selocide
Hutchison, Cal. R. f. 1932-1934: 55-56.
- Chrysomphalus aurantii**—Spraying
Ebeling, Cit. Leaves 13(8): 7, 10, 17, 1933.
Kenyon, Cal. Cult. 78: 249, 1932.
biQuayle & Ebeling, Cal. B. 583, 1934. 22p.
- Chrysomphalus citrinus**
Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(5): 50-51, 1931.
biNel, Hilgardia 7: 417-466, 1933.
biQuayle, Cal. B. 542: 32-33, 1932.
Volck & Hunt, Cal. Spray-Chem. Corp. Res. B. July 1931, 12p.
- †Chrysomphalus dictyospermi (Morg.) (Dictyospermum scale)***
bCressman, J. Ec. Ent. 26: 696-706, '33.
bCressman & Kassela, J. Ec. Ent. 26: 1177-1179, 1933.
Dutton, Cal. Avocado Assoc. YB f. 1930: 128.
Gardner, J. Ent. & Zool. 26: 31-33, '34.
McDaniel, Mich. Sp. B. 214: 60, 1931.
Mackie, Cal. Agr. Mo. B. 19: 836, 1931; B. 20: 430-432, 1931.
Mackie, Cal. Avocado Assoc. YB f. 1931: 95-96.
Moulton, Cal. Agr. Mo. B. 20: 755, '32.
biNel, Hilgardia 7: 417-466, 1933.
biQuayle, Cal. B. 542: 32-33, 35, 1932.
Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 21.
Watson & Berger, Fla. Ext. B. 67: 27, 1932.
- Chrysomphalus obscurus (Comst.) (Obscure scale)***
Baker, Nat. Pecan Grow. Assoc. P. 30: 44-51, 1931; 31: 53-54, 1932.
biBaker, USDA C. 295, 1933, 19p.
Burkett, Tex. Dept. Agr. B. 111: 202-204, 1932.
- Drake & Guthrie, Iowa Dept. Agr. YB 31: 31, 1931.
Fleury, Cal. Agr. Mo. B. 23: 235, 287, 1934.
Mackie, Cal. Agr. Mo. B. 23: 299, '34.
Marlatt, USDA Ent. R. f. 1930: 11; R. f. 1931: 15-16; R. f. 1932: 5.
Moznette et al. USDA FB 1654: 56-58, 1931.
- Chrysomya bezziana**
Faust, Sci. Month. 32: 231, 1931.
- Chrysomya macellaria**, see *Cochliomyia macellaria*
- Chrysomya demandata**
iDrake & Decker, Ent. News 43: 29-30, 1932.
- Chrysopa bipunctata**
Smith, Ann. Ent. Soc. Amer. 25: 589-590, 1932.
- Chrysopa californica**
Bailey, Hilgardia 7: 500, 1933.
Cole, J. Ec. Ent. 26: 862, 1933.
Kirkpatrick, Cal. Cult. 80: 347, 1933.
biQuayle, Cal. B. 542: 15-16, 1932.
Severin, Hilgardia 7: 339, 1933.
Smith & Armitage, Cal. B. 509: 21-22, 1931.
- biWildermuth & Walter, USDA TB 306: 17-18, 1932.
- Chrysopa oculata**
Briand, Can. Ent. 63: 123-126, 1931.
biDitman & Cory, Md. B. 328: 471, 1931.
Matthews, Nat. Nursery. 42(8): 5, '34.
Putman, Can. Ent. 64: 122, 1932.
- Chrysopa oculata chlorophana**
bSmith, Ann. Ent. Soc. Amer. 25: 587-588, 1932.
- Chrysopa perla**
iMorse, J. N.Y. Ent. Soc. 39: 1-43, '31.
- Chrysopa plorabunda**
biMiller, J. Morph. 55: 29-51, 1933.
biSmith, Ann. Ent. Soc. Amer. 25: 593, 1932.
- Chrysopa ramburi**
Compere & Smith, Hilgardia 6: 609, 1932.
- Chrysopa rufilabris**
Putman, Can. Ent. 64: 122-126, 1932.
Ross & Putman, Ent. Soc. Ont. R. 64: 37, 1933.
- Chrysopa spp.**
nBanks, Psyche 38: 64-65, 174, 1931.

Chrysopa spp. Cont'd

- Clausen & Berry, USDA TB 320: 45, 1932.
 biDuncan, Cal. St. Teach. Coll. Insects: 80-81, 1933.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 4-5, 1934.
 iHerrick, Rur. N.Y. 91: 811, 1932.
 Knowlton, J. Ec. Ent. 26: 977, 1933.
 inSmith, Ann. Ent. Soc. Amer. 24: 803-812, 1931; 25: 584-599, 1932.
 bSmith, J. Kans. Ent. Soc. 7: 130-131, 1934.
 Swezey, Hawaiian Ent. Soc. P. 8: 2, '32.
 iWatson & Berger, Fla. Ext. B. 67: 19-20, 1932.
- Chrysopa vulgaris**
 iPeña, La Hacienda 25: 74, 1930.
- Chrysophanus charlottensis**
 nHolland, Carnegie Mus. Ann. 20(1): 6, 7 1930.
- Chrysophanus thoë**
 Clark, P. Ent. Soc. Wash. 36: 263, '34.
- Chrysopidae**
 bPutnam, Can. Ent. 64: 121-126, 1932.
 biSmith, Ann. Ent. Soc. Amer. 25: 579-601, 1932.
- Chrysopidae—Key**
 Smith, J. Kans. Ent. Soc. 7: 131-135, 1934.
- Chrysopidae—Larvae**
 Barringer, Ent. News 42: 83, 1931.
 Burkett, Tex. Dept. Agr. B. 111: 211, 1932.
 iJones, Better Homes & Gardens 10(5): 30, 93-94, 1931.
 Severin, Ent. News 42: 171, 1931.
 Cornell Rur. School Leaf 25(2): 7, 1931.
- Chrysopiella sabulosa**
 bSmith, J. Kans. Ent. Soc. 7: 131, 1934.
- Chrysopilus andersoni**
 bnLeonard, Amer. Ent. Soc. Mem. 7: 131-133, 1930.
- Chrysopilus ferruginosus**
 Catoni, P.R. Com. Agr. y Trabajo Inf. Ann. f. 1929-1930: 181.
 Garcia, P. R. Ins. R. f. 1929-30: 37, 1931.
- Chrysopilus pilosus**
 bnLeonard, Amer. Ent. Soc. Mem. 7: 152-154, 1930.

Chrysopilus spp.

- nCurran, Amer. Mus. Nov. 462: 1-9, 1931.
 Malloch, Greene & McAtee, P. Ent. Soc. Wash. 33: 219, 1931.
- Chrysoplectrum albovenae**
 nBell, Bklyn. Ent. Soc. B. 27: 131-132, 1932.
- Chrysoplectrum bahiana**
 iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 18, 1934.
- Chrysops callida**
 Schwardt, J. Kans. Ent. Soc. 4: 5-9, 1931.
- Chrysops carbonaria, celer**
 iStone, Ann. Ent. Soc. Amer. 23: 275-280, 1930.
- Chrysops costata—Puerto Rico**
 Van Volkenberg, P.R. Mayaguez R. f. 1931: 25, 1932.
- Chrysops cuclux**
 Bequaert, Bost. Soc. Nat. Hist. Occ. Pap. 8: 82, 1933.
 Stone, Ann. Ent. Soc. Amer. 23: 280-282, 1930.
- Chrysops cursim**
 Bequaert, Bost. Soc. Nat. Hist. Occ. Pap. 8: 82, 1933.
- Chrysops discalis**
 biMatheson, Med. Ent.: 323-324, 1932.
 Mich. Pub. Health 18: 251-252, 1930.
- Chrysops griseicollis**
 nBequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 897, 1930.
- Chrysops incisa**
 Bequaert, J. N.Y. Ent. Soc. 39: 535-536, 1931.
- Chrysops langi**
 nBequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 898-899, 1930.
- Chrysops lateralis**
 ibMetcalf & Sanderson, N.Y. St. Mus. C. 5: 18, 1931.
- Chrysops lupus**
 Bequaert, Bost. Soc. Nat. Hist. Occ. Pap. 8: 83, 1933.
- Chrysops nigra**
 iStone, Ann. Ent. Soc. Amer. 23: 285-287, 1930.
- Chrysops nigribimbo**
 Bequaert, Bost. Soc. Nat. Hist. Occ. Pap. 8: 83, 1933.

- Chrysops parvula**
Schwardt & Hall, Ark. B. 256: 13, 1931.
- Chrysops pikei**
Bequaert, Bost. Soc. Nat. Hist. Occ. Pap. 8: 83-84, 1933.
- Chrysops spp. (Deer flies)***
iSchwardt & Hall, Ark. B. 256: 11-15, 1931.
Krijgsman, Pac. Sci. Cong. 5, P. 5: 3357-3358, 1934.
- Chrysops ultima**
Bequaert, Bost. Soc. Nat. Hist. Occ. Pap. 88: 84, 1933.
- Chrysops variegata**
Bequaert, J. N.Y. Ent. Soc. 39: 533-535, 1931.
- Chrysops vittatus**
Stone, Ann. Ent. Soc. Amer. 23: 288-290, 1930.
- Chrysops wiedemanni**
iStone, Ann. Ent. Soc. Amer. 23: 290-292, 1930.
- Chrysopygia, C. auricaudata**
nTownsend, J. N.Y. Ent. Soc. 40: 471-472, 1932.
- Chrysosarcophaga, C. superba**
nTownsend, J. N.Y. Ent. Soc. 40: 441-442, 1932.
- Chrysosoma fraternum**
nVan Duzee, Hawaiian Ent. Soc. P. 8: 310-312, 1933.
- Chrysosoma latipicatum**
inVan Duzee, Cal. Acad. Sci. P. ser. 4: 21, 67, 1933.
- Chrysosoma plumosa**
inVan Duzee, Amer. Mus. Nov. 521: 1-2, 1932.
- Chrysotimus lutea**
nCurran, BAMNH 61: 52, 1931.
- Chrysotus arkansensis**
nVan Duzee, Can. Ent. 62: 84-85, 1930.
- Chrysotus atratus**
nVan Duzee, Amer. Mus. Nov. 439: 2, 1930.
- Chrysotus badius**
nVan Duzee, Amer. Mus. Nov. 569: 15-16, 1932.
- Chrysotus barbipes**
inVan Duzee, Amer. Mus. Nov. 569: 14, 1932.
- Chrysotus bellulus**
inVan Duzee, Amer. Mus. Nov. 569: 14-15, 1932.
- Chrysotus brasiliensis**
nVan Duzee, Amer. Mus. Nov. 655: 1, 1933.
- Chrysotus brevispina**
inVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21: 68-69, 1933.
- Chrysotus caudatus**
inVan Duzee, Amer. Mus. Nov. 483: 20, 1931.
- Chrysotus denticornis**
inLamb, Bernice P. Bishop Mus. B. 98: 233-235, 1932.
- Chrysotus latifacies**
inVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21: 69, 1933.
- Chrysotus longihirtus**
inVan Duzee, Amer. Mus. Nov. 569: 13-14, 1932.
- Chrysotus longiventris**
nVan Duzee, Amer. Mus. Nov. 483: 23, 1931.
- Chrysotus nigriciliatus**
nVan Duzee, Amer. Mus. Nov. 655: 2, 1933.
- Chrysotus pallidipalpus**
inVan Duzee, Hawaiian Ent. Soc. P. 8: 313-314, 1933.
- Chrysotus parvipalpus**
nVan Duzee, Amer. Mus. Nov. 483: 21-22, 1931.
- Chrysotus setosus**
nVan Duzee, Amer. Mus. Nov. 483: 20-21, 1931.
- Chrysotus tuberculatus**
inVan Duzee, Amer. Mus. Nov. 483: 22-23, 1931.
- Chrysotus vulgaris**
inVan Duzee, Hawaiian Ent. Soc. P. 8: 313, 1933.
- Chrysotus zenus**
Van Duzee, Amer. Mus. Nov. 483: 15-23, 1931.
- Chthonius packardii**
Giovannoli, Bailey, Cave Life of Ky.: 222, 1933.
- Chyliza erudita**
Wehrle, J. Ec. Ent. 23: 286, 1930.

- Chylosyne californica*
iComstock, So. Cal. Acad. Sci. B. 28: 53-55, 1930.
- Cicada killer*, see *Sphecius speciosus*
- Cicada*, Seventeen year, see *Magicicada septendecim*
- **Cicadas*, see *Cicadidae*
- Cicadella circellata*
iSmith, Cal. B. 505: 34-36, 1931.
- Cicadella (Entogonia) constans*
iDozier, Amer. Mus. Nov. 510: 6-7, '31.
- Cicadella dubiosa*
inDozier, Amer. Mus. Nov. 510: 5-6, '31.
- Cicadella gothica*
Phipps, Maine B. 356: 123, 1930.
- Cicadella (Entogonia) hispaniola*
inDozier, Amer. Mus. Nov. 510: 8-9, '31.
- Cicadellidae*
nBeamer, Can. Ent. 66: 16-18, 1934.
Deay, Ind. Acad. Sci. P. 42: 227-241, 1933.
bFletcher, Ann. Ent. Soc. Amer. 23: 33-54, 1930.
iHowe, Ohio J. Sci. 30: 324-339, 1930.
bLowry, Ohio J. Sci. 33: 59-80, 1933.
- Cicadidae (Cicadas)**
Beamer, J. N.Y. Ent. Soc. 38: 291-305, 1930.
Bromley, Psyche 40: 130, 1933.
Davis, J. N.Y. Ent. Soc. 38: 53-72, '30.
iDavis, J. N.Y. Ent. Soc. 40: 241-265, 1932.
bQuayle, Cal. B. 542: 53, 1932.
iWeed, Insect Ways: 206-231, 1930.
Wilson, Fla. Ent. Soc. B. 14: 41-44, 1930.
Wilson, Sci. News Letter 19: 8, 1931.
bWymore, J. Ec. Ent. 27: 884-891, '34.
- Cicadidae—Food for ants*
iBiagini, Lit. Dig. 104(1): 40, 1930.
- Cicadidae—Sonification*
biPickwell, Cal. St. Teach. Coll. Insects: 130-131, 1933.
Sweet, Cath. World 131: 716, 1930.
- Cicadidae and copperheads*
Boyer & Heinze, Ent. News 45: 88, '34.
- Cicadula borealis*
inDorst, J. Kans. Ent. Soc. 4: 45, 1931.
- Cicadula clavata*
inDeLong and Davidson, J. N.Y. Ent. Soc. 42: 223, 1934.
- Cicadula divisa* (Uhl.) (Six-spotted leaf-hopper)*
ibSeverin, Hilgardia 7: 163-179, 1932.
Severin, Hilgardia 8: 343, 1934.
Severin & Haasis, Hilgardia 8: 329-335, 1934.
- Cicadula maidis*
Mackie, Cal. Agr. Mo. B. 23: 397, '34.
- Cicadula major, obsoleta*
inDorst, J. Kans. Ent. Soc. 4: 42-44, '31.
- Cicadula osborni*
inDorst, J. Kans. Ent. Soc. 4: 45-46, '31.
- Cicadula punctifrons*
Dorst, J. Kans. Ent. Soc. 4: 39-40, '31.
- Cicadula sexnotata*
Dobrosky, Boyce Thompson Inst. Contrib. 3(1): 39-58, 1931.
Dorst, J. Kans. Ent. Soc. 4: 40-41, '31.
Essig & Hoskins, Cal. Ext. C. 87: 23, 1934.
bOsborn, USDA C. 241: 3-4, 1932.
Post, Amer. Soc. Hort. Sci. P. 28: 397, 1932.
- Cicadula sexnotata and Aster yellows*
ibDobrosky, Boyce Thompson Inst. Contrib. 2: 343-349, 1930.
Heald, Man. of Pl. Dis. ed. 2: 252, '33.
Hutchison, Cal. R. f. 1929-1930: 65, 1931.
Kunkel, Boyce Thompson Inst. Contrib. 3(1): 85-123, 1931.
Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes, 3(1): 4, 1932.
Tilford, Ohio B. 511: 17, 1932.
- Cicadula snowi*
inDorst, J. Kans. Ent. Soc. 4: 41-42, '31.
- Cicindela alata*
nLiljeblad, Can. Ent. 64: 215-216, '32.
- Cicindela campestris*
iPeña, La Hacienda. 25: 74, 1930.
- Cicindela cimarrona*
Nicolay & Weiss, J. N.Y. Ent. Soc. 40: 353-354, 1932.
- Cicindela cyaniventris*
Smyth, J. Kans. Ent. Soc. 7: 106, 1934.
- Cicindela decemnotata*
bNicolay & Weiss, J. N.Y. Ent. Soc. 40: 353, 1932.
- Cicindela lepida*
Nicolay, Bklyn. Ent. Soc. B. 28: 82, 1933.

- Cicindela limbalis*
bNicolay & Weiss, J. N.Y. Ent. Soc. 40: 347-350, 1932.
- Cicindela nevadica*
Davis, Bklyn. Ent. Soc. B. 26: 187, '31.
- Cicindela pimeriana*
Smyth, J. Kans. Ent. Soc. 7: 104-105, 1934.
- Cicindela politula laetipennis*
Benedict, Pan-Pac. Ent. 10: 76, 1934.
- Cicindela pulchra*
Smyth, J. Kans. Ent. Soc. 7: 104, 1934.
- Cicindela purpurea*
bNicolay & Weiss, J. N.Y. Ent. Soc. 40: 341-347, 1932.
- Cicindela purpurea auduboni*
Nicolay, J. N.Y. Ent. Soc. 40: 269, '32.
- Cicindela purpurea niggerima*
Frost, Bklyn. Ent. Soc. B. 27: 245, '32.
- Cicindela radians*
Smyth, J. Kans. Ent. Soc. 7: 106-107, 1934.
- Cicindela repanda*—Ova
biPayne, J. Morph. 53: 544-545, 1932.
- Cicindela santaclarae, segnis*
Smyth, J. Kans. Ent. Soc. 7: 105-106, 1934.
- Cicindela sexguttata*
biPayne, J. Morph. 53: 538-544, 1932.
- Cicindela sexguttata denikei*
Brown, Can. Ent. 66: 22, 1934.
- Cicindela snowi*
Smyth, J. Kans. Ent. Soc. 7: 105, 1934.
- Cicindela splendida*
bNicolay & Weiss, J. N.Y. Ent. Soc. 40: 350-353, 1932.
- Cicindela spp.*
Ingram, J. Ent. & Zool. 26: 51-52, '34.
- Cicindela unipunctata*
Hood, Bklyn. Ent. Soc. B. 26: 139, '31.
- Cicindelidae*
Hadden, Hawaiian Ent. Soc. P. 8: 487-495, 1934.
Horn, Trans. Amer. Ent. Soc. 56: 73-86, 1930.
Montgomery & Montgomery, Ind. Acad. Sci. P. 40: 357-359, 1931.
Nicolay, Ent. News 45: 127-131, 153-155, 1934.
bNicolay & Weiss, J. N.Y. Ent. Soc. 40: 341-355, 1932.
bSmyth, Ent. News 44: 197-204, 1933.
- *Cigar case-bearer, *see* *Coleophora fletcherella* Fern.
- *Cigarette beetle, *see* *Lasioderma serricorne* F.
- Cimberis* sp.—Pollen feeder
Bridwell, P. Ent. Soc. Wash. 36: 262, 1934.
- Cimbex americana* Leach (Elm sawfly)*
iMcDaniel, Mich. Sp. B. 243: 57-58, 1933.
- Cimbex americana rubrosa*
nRoss, Can. Ent. 64: 250-251, 1932.
- Cimex*
Barber, Bklyn. Ent. Soc. B. 29: 106, 1934.
Stiles & Collins, J. Parasit. 15: 291-292, 1929.
- Cimex columbarius*
Buckley, USDA FB 1652: 62, 1931.
Buckley & Bunyea, USDA FB 1652 rev.: 66-67, 1933.
- Cimex hemipterus*
bKumm & Frobisher, Amer. J. Trop. Med. 12: 357-360, 1932.
bMatheson, Med. Ent.: 131-133, 1932.
Spencer, B.C. Ent. Soc. P. 31: 43-44, 1934.
- Cimex lectularius* L. (Bedbug)*
Baker, U.S. Nav. Med. B. 32: 193-194, 1934.
biBrown, U.S. Nav. Med. B. 31: 253-268, 1933.
iBrown, U.S. Nav. Med. B. 32: 294-317, 1934.
Buckley, USDA FB 1652: 62, 1931.
Buckley & Bunyea, USDA FB 1652 rev.: 66-67, 1933.
Coffman, N.C. Health B. 48(3): 8-9, 1933.
bCook, U.S. Nav. Med. B. 32: 246, '34.
iDoane, Common Pests: 68-69, 1931.
Ford & Covert, S.D. Ext. C. 320: 16, 1933.
Grady, Soap, 8(7): 92-93, 1932.
biHerrick & Griswold, N.Y. (C) Ext. B. 202: 17-20, 1931; rev.: 16-18, 1934.
iLillingston, Hygeia 12: 641-643, 1934.
biMatheson, Med. Ent.: 95-98, 128-138, 1932.

- Cimex lectularius* L. (Bed bug) *Cont'd*
 Metcalf, Ill. St. Acad. Sci. Trans. 23: 271, 1931.
 biMex. Agr. & Fomento. Principales Plagas: 241, 1930.
 Ormsby, Pract. Treat. Dis. Skin ed. 4 rev.: 1052-1053, 1934.
 iParks & Jones, Ohio Ext. B. 97 rev.: 22-23, 1933.
 Riley & Johanssen, Med. Ent.: 151-158, 1932.
 iSanderson, Ins. Pests Farm, ed. 3: 543, 1931.
 Spencer, B.C. Ent. Soc. P. 31: 43-45, 1934.
 Stone, Soap, 9(3): 87-89, 1933.
 Twinn, Ent. Soc. Ont. R. 65: 127, 1934.
 iWakeland, Ida. Ext. C. 38, 1931: 8p.
 North Amer. Vet. 12(2): 12, 1931.
- Cimex lectularius*—Artificial feeding
 bRivnay, J. Parasit. 16: 246-249, 1930.
- Cimex lectularius*—Host selection and cannibalism
 bRivnay, Ann. Ent. Soc. Amer. 23: 758-764, 1930.
- Cimex lectularius*—Tropisms effecting copulation
 biRivnay, Psche 40: 115-120, 1933.
- Cimex lectularius* and European relapsing fever
 Cecil, Text-book of Med. ed. 3: 511, 1934.
- Cimex lectularius* and temperature
 biJones, Ann. Ent. Soc. Amer. 23: 105-119, 1930.
- Cimex lectularius* and yellow fever
 bKumm & Frobisher, Amer. J. Trop. Med. 12: 349-361, 1932.
- Cimex pilosellus*—(Bat bedbug)
 Spencer, B.C. Ent. Soc. P. 31: 44, 1934.
- Cinara* spp.
 Bartholomew, Ann. Ent. Soc. Amer. 25: 725-726.
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 845-872, 1931.
 nHottes, P. Biol. Soc. Wash. 46: 1-6, 1933.
 inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 153-155, 1931.
- Cinara taedae*
 nTissot, Fla. Ent. 16: 5-7, 1932.
- Cinclidia harrisii*, *see* *Melitaea harrisii*
- Cingilia catenaria* (Drury) (Chain-spotted geometer)*
 Phipps, Maine B. 356: 138-139, 1930.
 Twinn, Ent. Soc. Ont. R. 64: 73, 1933.
- Cintameva compar*
 iBruner, Rev. de Agr. Cuba 12(4): 11, 1930.
- Cinygma bipunctata*, *see* *Arthroplea bipunctata*
- Cinygma dimicki*
 nMcDunnough, Can. Ent. 66: 182, 1934.
- Cinygma integrum*
 McDunnough, Can. Ent. 65: 73-74, 1933.
- Cinygmula*, C. spp.
 nMcDunnough, Can. Ent. 65: 75-77, 1933; 66: 182-184, 1934.
- Cinyra gracilipes*
 Knoll, Ent. News 43: 45, 1932.
- Circotettix verrucullatus*
 Hebard, Minn. TB 85: 31-32, 1932.
 Helwig, Amer. Nat. 67: 62, 1933.
 biHelwig, J. Morph. 55: 265-311, 1933.
- Circus* movements in insects
 biClark, J. Expt. Zool. 66: 311-333, 1933.
- Cirphis pulchella* (Hispaniolan cane butterfly)
 biWolcott, Ec. Ent. of W. I.: 213-215, 1933.
- †*Cirphis unipuncta* (Haw.) (Armyworm)*
 A.C.B., Cal. Agr. Mo. B. 19: 421, 1930.
 iBritton, Conn. B. 344: 114, 1933.
 iCaesar, Ont. Dept. Agr. B. 359: 6-9, 1931.
 Crosthwait, Peninsula Hort. Soc. Trans. 47: 75-76, 1933.
 iDrake & Harris, Iowa Ext. B. 194: 4-8, 1933.
 iDustan, Can. Dept. Agr. Ent. B. 32: 17-18, 1932.
 Holloway, Facts about Sugar 28(5): 216, 1933.
 Lutken, S.C. Wkly. News Notes 19(3), 1930.
 Marlatt, USDA Ent. R. f. 1931, 28.
 Mason, Hawaiian Ent. Soc. P. 8: 29, 1932.
 iMickel, J. Ec. Ent. 25: 1123-1128, '32.
 Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 48, 1932.
 Pemberton, Facts about sugar, 27: 484-485, 1932.

- Pemberton, Hawaiian Pl. Rec. 37: 5-6, 87, 1933.
 Pemberton, Hawaiian Sugar Pl. Assoc. P. 52: 19-20, 131-132, 1933; P. 53: 15-16, 1934.
 iRuggles, Minn. Hort. 62: 153, 1934.
 Sanderson, Insect Pests Farm, ed. 3: 89-92, 1931.
 Skinner & Coleman, Ind. Ext. R. 21: 46, 1932.
 Smith, J. Kans. Ent. Soc. 5: 72-73, '32.
 Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 427, 1931.
 Swezey & Pemberton, Hawaiian Sugar Pl. Assoc. P. 51: 580-581, 1932.
- Cirrospilus ingenuus**
 nGahan, Ann. Ent. Soc. Amer. 25: 753-754, 1932.
- Cirrospilus inimicus**
 nGahan, P. Ent. Soc. Wash. 36: 123-124, 1934.
- Cis adamsoni**
 inBlair, Bernice P. Bishop Mus. B. 98: 242-243, 1932.
- Cis dracaenae**
 nPerkins, Hawaiian Ent. Soc. P. 7: 514-515, 1931.
- Cis frosti**
 Frost, Bklyn. Ent. Soc. B. 25: 41, 1930.
- Cis gravipennis, nudipennis**
 nPerkins, Hawaiian Ent. Soc. P. 7: 513-514, 1931.
- Cis paritii**
 nPerkins, Hawaiian Ent. Soc. P. 8: 270-271, 1933.
- Cissia eurytus**
 iSaunders, N.Y. St. Mus. Hdbk. 13: 170-172, 1932.
- Cistelidae**
 Fall, J. Kans. Ent. Soc. 4: 15-16, 1931.
- Citheronia regalis (F) (Hickory horned devil)* (Regal moth)***
 Britton, Conn. B. 344: 117, 1933.
 McDaniel, Mich. Sp. B. 243: 54-55, 1933.
- ***Citricola** scale, *see* **Coccus pseudomagnoliarum** Kuw.
- ***Citrophilus mealybug**, *see* **Pseudococcus gahani** Green.
- ***Citrus blackfly**, *see* **Aleurocanthus woglumi** Ashby.
- ‡**Citrus insects**
 Armitage, Cal. Cit. 16: 515, 1931.
 Bates, Fla. Ent. 17: 29-32, 45-47, 1933.
 Clancy, J. Ec. Ent. 26: 1171, 1933.
 Clark, Tex. Cit. 8(7): 10, 26, 1931.
 Clark, Tex. R. 45: 207, 1932.
 Clark, Annual Cit. Inst. Edinburg Coll. (Tex.) P. 2: 142-145, 1933.
 bClark, Tex. C. 67: 40-49, 1933.
 Clark, Tex. Cit. Inst. P. 3: 67-69, 1934.
 Clark, Tex. R. 47: 237-238, 1934.
 iClark & Friend, Tex. B. 455, 1932. 35p.
 Clausen, USDA C. 168: 37-38, 1931.
 biClausen & Berry, USDA TB 320, 1932. 58p.
 DeBusk, Cit. Ind. 13(8): 11-13, 1932.
 DeBusk, Fla. Ext. R. f. 1932: 66.
 DeBusk, Fla. St. Hort. Soc. P. 45: 123-127, 1932.
 Doane, Common Pests: 173-186, 1931.
 English, Ala. Poly. R. 40: 22-23, 1929; R. 41: 31-32, 1931; R. 42: 48, 1931.
 Gardner, J. Ent. & Zool. 26: 29-33, '34.
 Greene, Cal. Agr. Mo. B. 21: 258-268, 1932.
- biHaas, J. Agr. Res. 49: 477-492, 1934.
 Hodgson, Tex. Cit. 7(1): 13-14, 30, '30.
 Kuwana, Pac. Sci. Cong. 5, P. 5: 3521-3523, 1934.
 Leonard, P.R. Ins. R. f. 1929-30: 114-116, 1931.
 Leonard, J. Ec. Ent. 25: 934-935, 1932.
 Longfield-Smith, Fla. Dept. Agr. Chem. Div. R. f. 1933-34: 6-70.
 iMcGregor, Cal. Cit. 18: 128, 160, 1933.
 iMcGregor, P. Ent. Soc. Wash. 36: 256-259, 1934.
 Miller, Cal. Cit. 19: 356-357, 1934.
 Mitchel, Tex. Cit. 6(9): 14, 26-27, '30.
 Moulton, Cal. Agr. Mo. B. 20: 749, '32.
 Nelson, & Mottern, Cit. Ind. 12(10): 24-25, 1931.
- biPope, Hawaii B. 71: 12-16, 1934.
 biQuayle, Cal. B. 542: 1932, 87p.
 Quayle, Cit. Ind. 13(4): 8-9, 1932.
 Quayle, Pac. Sci. Cong. 5, P. 5: 3445-3449, 1934.
 Rounds, Cal. Cit. 15: 428, 1930.
 Sanderson, Ins. Pests Farm, ed. 3: 456-462, 1931.
 Shiraki, Pac. Sci. Cong. 5, P. 5: 3451-3454, 1934.

†Citrus insects *Cont'd*

- Smith, Tex. Cit. 9(10): 15, 1933.
 iSmith & Armitage, Cal. B. 509, 1931.
 74p.
 Thompson, Fla. R. f. 1932, 71-73; R. f. 1933, 78.
 Thompson, Fla. St. Hort. Soc. P. 46: 84-87, 1933.
 iTorres, Rev. de Agr. Cuba 11(11): 34, 1930.
 Van Veijeren, Cit. Leaves 12(2): 7, 18, 1932.
 Watson, Cit. Ind. 12(7): 23, 1931; 13(6): 7, 25, 1932.
 Watson, Fla. Grow. 39(5): 22, 1931.
 Watson, Fla. St. Hort. Soc. P. 45: 116-118, 1932.
 Watson, Cit. Ind. 15(11): 9, 25, 1934.
 biWatson & Berger, Fla. Ext. B. 67, 1932, 140p.
 iWelch, Tex. Cit. 10(12): 9, 16, 19, 1934.
 Whitcomb, Cal. Cit. 18: 267, 292, 1933.
 Williams, Cal. Cit. 16: 91, 1930.
 Woglum, Cal. Fr. Gr. Exch. B. 7, 1930, 45p.
 iWoglum, Cal. Cit. 16: 450, 485, 1931.
 Woglum, Cal. Fr. Grow. Exch. B. 9, 1932, 25p.; B. 11, 1934, 26p.
 biWolcott, Ec. Ent. of W. I.: 427-474, 1933.
 Yothers & Mason, Fla. St. Hort. Soc. P. 44: 51-54, 1931.
 Yothers & Miller, Cit. Ind. 15(1): 6-7, 1934.
Citrus insects—Parasites
 Berger, Fla. St. Hort. Soc. P. 45: 1-3, 131-136, 1932.
 Fullaway, Pac. Sci. Cong. 5 P. 4: 593-594, 1930.
Citrus insects and weather
 Quayle, Cal. Cit. 18: 59, 1932.
 Young, Cit. Leaves 14(7): 4, 1934.
 Citrus leaf miner, *see* *Phyllocnistis citrella*
 *Citrus mealybug, *see* *Pseudococcus citri*
 *Citrus red mite, *see* *Paratetranychus citri*
 Citrus red scale, *see* *Chrysomphalus aurantii*
 Citrus red spider, *see* *Paratetranychus citri*
 *Citrus rust mite, *see* *Phyllocoptes oleivorus* Ashm.
 *Citrus thrips, *see* *Scirtothrips citri* Moul't.
 *Citrus white fly, *see* *Dialeurodes citri*

Cixiidae

- iMuir, Pan-Pac. Ent. 7: 12-14, 1930.
Cixius guttulatus, umbrosus
 nWalley, Can. Ent. 64: 21-22, 1932.
Claassenia caudata
 nWu, Ann. Ent. Soc. Amer. 27: 256, '34.
Cladius isomerus Nort. (Bristly rose slug)*
 Cook & Walker, Va. Truck B. 79: 1064, 1932.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 29, 1934.
Cladocera
 Brown & Banta, Physiol. Zool. 5: 218-219, 1932.
 biLumer, Ohio J. Sci. 32: 231, 1932.
Clasoptera
 Doering, J. Kans. Ent. Soc. 3: 63-64, 1930.
Clasoptera laenata
 Doering, J. Kans. Ent. Soc. 4: 50-51, 1931.
Clasoptera lineatocollis
 Sweet, J. Ent. & Zool. 22: 86, 1930.
Clasoptera obtusa
 Nace, For. Leaves 22: 117-118, 1930.
Clasoptera proteus
 Phipps, Maine B. 356: 122-123, 1930.
Clavigerus bicolor
 Bartholomew, Ann. Ent. Soc. Amer. 25: 726, 1932.
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 932-933, 1931.
Clavigerus populifoliae
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 933-934, 1931.
 Miller, Can. Ent. 65: 3-4, 1933.
Clavigerus salicis, smithiae
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 931-932, 934, 1931.
 Clay-colored billbug, *see* *Calendra aequalis*
 Clear lake gnat, *see* *Chaoborus lacustris*
 Clear wing moths, *see* *Aegeriidae*
 *Clear-winged grasshopper, *see* *Camnula pellucida* Scudd.
 Clear-winged locust, *see* *Camnula pellucida*
 Clematis borer, *see* *Alcathoe caudata*
Clematis insects
 Siepmann, Bklyn. Ent. Soc. B. 26: 266, 1931.
Cleonus piger
 Crosby & Blauvelt, Ent. News 41: 164, 1930.

- Cleonus punctiventris**
Howard, Hist. Appl'd Ent. 276, 1930.
- Cleridae**
Wolcott, Psyche 39: 41-44, 1932.
- Click-beetle**
iThone, Sci. News Letter 18: 191, 1930.
- Clidophleps distanti, pallida**
Beamer, J. N.Y. Ent. Soc. 38: 301-304, 1930.
- Climate and insects**
Headlee, N.J. Dept. Ent. R. f. 1929: 142-143, 1930; R. f. 1930: 136-142, 1931.
Headlee, N.J. R. 52: 182-186, 1931.
Lipman, N.J. R. 50: 28, 1929; 52: 31-32, 1931.
Miller, N.J. R. 51: 136, 1930.
Parker, Kans. Bien. R. 6: 89-90, 1932.
iPhillips, Hawaiian Pineapple Prod. B. 15: 24-42, 1934.
Wolcott, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 97, P. Pt. 2, 1932, 3p.
Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 242-244, 1932.
- Climbing cutworms, see Cutworms—Climbing**
- Cllobata erythrocephala**
Cresson, Trans. Amer. Ent. Soc. 56: 324-325, 1930.
- Clisiocampa azteca**
biAncona, Anal. Univ. Nac. Mex. Inst. de Biol. 1: 215-225, 1930.
- Clivina cubae**
nDarlington, Psyche 41: 68-70, 1934.
- Cloanthanus**
nBall, Can. Ent. 63: 219, 1931.
Ball, Can. Ent. 64: 252-253, 1932.
- Cloeon mendax**
iLdc, Can. Ent. 62: 224-226, 1930.
- Cloeon triangulifer**
nMcDunnough, Can. Ent. 63: 88, 1931.
- Clonaria deschaunseei**
binRehn, P. Acad. Nat. Sci. Phila. 85: 63-65, 1933.
- †Clothes moths**
Aspinwall, Tech. Assoc. Fur. Indus. J. 3(1): 6-13, 1932.
Chambers, Wis. Hort. 20: 342, 1930.
iCole, Ohio Farm. 169: 312-313, 1932.
iFisher, Good Housekeeping 98(4): 82-83, 243, 1934.
Herrick & Griswold, N.Y. (C) Ext. B. 202: 30-37, 1931.
Leechman, Can. Dept. Mines, Nat. Mus. B. 67: 139, 1931.
iMoore, Indus. & Engin. Chem. Anal. ed. 2: 365-368, 1930.
iO'Kane, Good Housekeeping 92(3): 90-91, 249, 1931.
O'Kane, N.H. Ext. C. 132, 1931, 4p.
Sanderson, Ins. Pests Farm ed. 3: 495-498, 1931.
Spencer, Can. Ent. 63: 199-200, 1931.
iThone, Sci. News Letter 23: 46, 1933.
Wakeland, Ida. Univ. News Letter 15(7): 4, 1931.
iWilson, Textile World 77: 450-452, '30.
Wolff, Oil, Paint & Drug Report. 123 (24): 19, 33, 1933.
iGood Housekeeping 94(4): 135, 1932.
- Clothes moths—Carbon bisulphide**
Watson, Fla. Grower 41(5): 12, 1933; 41(6): 12, 1933.
- Clothes moths—Cedar chests**
Sci. Amer. 150: 311, 1934.
- Clothes moths—Fumigation**
Colman, J. Ec. Ent. 27: 860, 1934.
bHerrick & Griswold, J. Ec. Ent. 25: 243-253, 1932.
Houser, Ohio Wkly. P. B. 17(9), 1932.
Parks & Jones, Ohio Ext. B. 97: 22-23, 1930.
iRodda, Wkly. Underwrit. 123: 793-795, 1930.
- Clothes moths—Insecticides**
iBillings, J. Ec. Ent. 27: 401-405, 1934.
Thomas, Soap, 9(8): 89, 91, 1933.
- Clothes moths—Paradichlorobenzine**
Abbott, Fruits & Gardens 28(2): 23, '30.
biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 34-37, 1931.
Farmer's Advoc. 67: 362, 1932.
- Clothes moths—Repellents**
iBillings, J. Ec. Ent. 27: 401-405, 1934.
iHerrick, J. Ec. Ent. 27: 1095-1099, '34.
Parks & Jones, Ohio Ext. B. 97: 20-21, 1930.
Ritchey, Sci. News Letter 26: 315, '33.
- Clothes moths—Starving**
Minaeff & Wright, Lit. Dig. 104(10): 26, 1930.
- *Clouded sulphur, see Colias philodice**

- *Cloudy-winged white fly, *see* *Dialeurodes citrifolii* Morg.
- *Clover aphid, *see* *Anuraphis bakeri* Cowen
- Clover bud weevil, *see* *Hypera nigrirostris*
- *Clover cutworm, *see* *Scotogramma trifolii* Rott.
- *Clover head weevil, *see* *Tychius griseus*
- Clover insects
Booth, N.Dak. Ext. C. 121: 31, 1933.
iHollowell, Loudoun-Fauquier Mag. 3(1): 44, 1931.
biJewett, Ky. B. 329, 1932, 172p.
biJewett, Ky. C. 42, 1934, 23p.
biRockwood, J. Agr. Res. 43: 57-65, '31.
iSanderson, Ins. Pests Farm ed. 3: 164-178, 1931.
- Clover-leaf hopper, *see* *Aceratagallia sanguinolenta*
- *Clover-leaf weevil, *see* *Hypera punctata*
- *Clover mite, *see* *Bryobia praetiosa* Koch
- *Clover root curculio, *see* *Sitona hispidula*
- *Clover-seed chalcid, *see* *Bruchophagus gibbus* Boh.
- *Clover-seed midge, *see* *Dasyneura leguminicola* Lint.
- *Cluster fly, *see* *Pollenia rudis* F.
- Clydonodorus schoutedeni
nAlexander, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1014-1016, 1930.
- Clytini
biHopping, Ann. Ent. Soc. Amer. 25: 529-577, 1932.
- Clytopleptus, C. albofasciatus
biHopping, Ann. Ent. Soc. Amer. 25: 566-567, 1932.
- Clytus marginicollis
Knull, Ent. News 45: 210, 1934.
- Clytus spp.
biHopping, Ann. Ent. Soc. Amer. 25: 561-565, 1932.
- Cnemidocoptes fossor
iWhitehead, Sci. Agr. 13: 753, 1933.
- Cnemidocoptes gallinae Raill. (Depluming mite)*
Andrews, Amer. Agr. 128: 86, 1931.
Bishopp & Wood, USDA FB 801, rev.: 7, 1931.
Buckley, USDA FB 1652: 57, 1931.
Buckley & Bunyee, USDA FB 1652, rev.: 62, 1933.
Gibson, Sci. Agr. 11: 210, 1930.
- Lamon & Ringhorne, Pract. Poult. Prod. rev.: 327-328, 1930.
Regenos, Allied Vet. 2(4): 9, 1931.
- Cnemidocoptes laevis
bBice, Hawaii C. 5: 35-36, 1932.
Lee, Profit. Poultry Manag. ed. 6: 131, 1933.
iStevenson, Ont. Dept. Agr. B. 363: 14-15, 1931.
- Cnemidocoptes mutans Robin (Scaly leg mite)*
biBice, Hawaii C. 5: 35, 1932.
Bishopp & Wood, USDA FB 801, rev.: 7, 1931.
Buckley, USDA FB 1652: 59, 1931.
iBuckley & Bunyee, USDA FB 1652, rev.: 63-64, 1933.
Carpenter, Cal. Cult. 74: 626, 1930.
Lamon & Kinghorne, Pract. Poult. Prod. rev.: 327, 1930.
Lee, Profit. Poultry Manag. ed. 6: 130, 1933.
iMayo, Fla. Dept. Agr. B. 34: n.s. 56-57, 1930.
Rawson, Sci. Month 39: 509, 1934.
Regenos, Allied Vet. 2(4): 9, 1931.
iStevenson, Ont. Dept. Agr. B. 363: 16-17, 1931.
Van Es & Olney, Neb. B. 290: 107, '34.
- Cnemodius sobrius
Blatchley, Trans. Amer. Ent. Soc. 60: 8, 1934.
- Cnephasia longana (Haw.) (Strawberry fruitworm)*
Edwards, Gray & Mote, Cal. Agr. Mo. B. 23: 328-333, 1934.
Fleury, J. Ec. Ent. 27: 593, 1934.
Marlatt, USDA Ent. R. f. 1932: 17.
- Cnesinus strigicollis
Knull, Ent. News 43: 65-66, 1932.
- Cnidocampa flavescens (Walk.) (Oriental moth)*
bClausen, USDA C. 168: 21, 1931.
iCollins, USDA C. 277, 1933, 8p.
Marlatt, USDA Ent. R. f. 1930: 51.
J. Ec. Ent. 23: 478, 1930.
- Cnidocampa flavescens—Parasites
Collins, J. Ec. Ent. 26: 55-57, 1933.
bSchaffner, Ann. Ent. Soc. Amer. 27: 585-592, 1934.
- Coast tick, *see* *Ixodes ricinus californicus*

Coccidae

Amer. Agr. Chem. Co. Rev. de Agr.
Cuba 13(5): 50, 1931.

Amos, Ind. Acad. Sci. P. 42: 205-211,
1933.

Burgess, Ariz. R. 45: 50-51, 1934.

Cockerell & Bueker, Amer. Mus. Nov.
424, 1930, 8p.

biJorgensen, Utah Acad. Sci. P. 11: 273-
284, 1934.

Mackie, Cal. Avocado Assoc. YB f.
1931: 95-96.

Mackie, Cal. Mo. B. 20: 419-441, 1931.

biMetcalf & Hockenyos, Ill. St. Acad.
Sci. Trans. 22: 166-184, 1930.

iSteinweden, Cal. Agr. Mo. B. 19: 561-
571, 1930.

Coccinella novemnotata

Curtiss, Iowa Res. B. 143: 341, 1931.

Coccinella novemnotata conjuncta

Dorval, Nat. Can. 61: 128, 1934.

Coccinella spp.

iDobzhansky, PUSNM 80(4): 9-40, '31.

biDobzhansky, Amer. Nat. 67: 103-105,
119-121, 1933.

Davis, Bklyn. Ent. Soc. B. 27: 101, '32.

Schaeffer, Bklyn. Ent. Soc. B. 28: 81,
1933.

Coccinellidae

Chapin, Wash. Acad. Sci. J. 20: 488-
495, 1930.

Daviault, Nat. Can. 57: 221-224, 1930.

biDobzhansky, Amer. Nat. 67: 97-126, '33

Gaines, Bklyn. Ent. Soc. B. 28: 211-
215, 1933.

iPainter & Parker, Northw. Miller, 178:
301, 1934.

Scott, Pan-Pac. Ent. 9: 126, 1933.

bStehr, Minn. TB 75, 1930, 54p.

Vierheller, Md. Fr. Grow. 1(8): 3, 1931.

Wheeler, Cal. Cult. 78: 393, 1932.

Coccoidea

Bibby, Bklyn. Ent. Soc. B. 26: 189-
193, 1931.

bBibby, J. N.Y. Ent. Soc. 39: 587-591,
1931.

Coccophagus gurneyi

biCompere & Smith, Hilgardia 6: 594-
601, 1932.

Hutchison, Cal. R. f. 1929-1930: 35, '31.

Schmidt, Hawaiian Ent. Soc. P. 8: 517-
518, 1934.

bSmith, Ann. Ent. Soc. Amer. 26: 523-
524, 1933.

Swezey, Hawaiian Ent. Soc. P. 8: 22,
1932.

Woglum, Cal. Fr. Grow. Exch. B. 7:
30, 1930.

iWoodhams, Cal. Agr. Mo. B. 20: 455-
457, 1931.

Cal. Cit. 16: 508, 1931.

J. Ec. Ent. 24: 1116, 1931.

Coccophagus spp.

Compere, Cal. Univ. Pub. Ent. 5: 252-
254, 1931.

Compere, PUSNM 78(7), 1931. 132p.

Compere & Smith, Hilgardia 6: 594-
609, 1932.

Ryan, Los Angeles Co. Com. Agr. R. f.
1931: 18.

Webber, What Research has done for
Subtrop. Agr. 27-28, 1934.

Coccotorus scutellaris, *see* **Anthonomus**
scutellaris

Coccotrypes dactyliperda

Swezey, Hawaiian Ent. Soc. P. 7: 332,
1931; P. 8: 16, 28, 1932.

Coccotrypes pygmaeus

Swezey, Hawaiian Ent. Soc. P. 8: 28,
1932.

Coccus cacti, *see* **Dactylopius coccus**

Coccus citricola, *see* **Coccus pseudomagnoliae**

Coccus elongatus

Flanders, J. Ec. Ent. 25: 1241, 1932.

Hagan, Hawaiian Ent. Soc. P. 7: 369,
1931.

iKrauss, Hawaii B. 64: 39-41, 1932.

iMcDaniel, Mich. Sp. B. 214: 70-71, '31.

Coccus hesperidum L. (Soft scale)*

Amer. Agr. Chem. Co., Rev. de Agr.
Cuba 13(5): 54, 1931.

Baker, Wash. St. Hort. Soc. P. 26: 183-
184, 1930.

biClark, Tex. C. 67: 48, 1933.

Essig, Cal. Univ. Pub. Ent. 6: 2, 1932.

Martin, Pan-Pac. Ent. 8: 188, 1932.

bQuayle, Cal. B. 542: 46, 1932.

iSchultz, La Hacienda 28: 140, 1933.

iSteinweden, Cal. Agr. Mo. B. 19: 563,
1930.

Watson, Fla. Grow. 38(7): 16, 1930.

iWatson & Berger, Fla. Ext. B. 67: 31-
32, 1932.

Coccus hesperidum—Parasites

Swezey, Hawaiian Ent. Soc. P. 8: 6, 1932.

Coccus longulus, see Coccus elongatus**†Coccus pseudomagnoliarum (Kuw.) (Citricola scale)***

Compere, Cal. Cit. 15: 562, 1930.

Essig, Hist. of Ent. 136–138, 1931.

Flanders, Cal. Cit. 17: 412, 1932.

iFlanders, Cit. Leaves 12(4): 15–16, 18, 1932.

Lockwood, Cal. Agr. Mo. B. 18: 768, 1929.

McGregor, Science 71: 244–245, 1930.

bMcGregor, J. Ec. Ent. 24: 1066–1070, 1931.

iMcGregor, Cal. Cit. 17: 182, 193, 213, 1932.

Martin, Pan-Pac. Ent. 8: 188, 1932.

bQuayle, Cal. B. 542: 44–45, 70–71, '32.

biRohrbaugh, Pl. Physiol. 9: 699, 1934.

Steinweden, Cal. Agr. Mo. B. 19: 563–564, 1930.

Volck & Hunt, Cal. Spray-Chem. Corp. Res. B. July 1931: 13–14

Woglum, Cal. Fr. Grow. Exch. B. 8: 3, 8–10, 12, 19, 22, 1931; B. 9: 11–12, 1932.

Woglum, Cal. Cit. 17: 383, 1932.

Coccus pseudomagnoliarum—Parasites

Scott, J. Ec. Ent. 26: 298–299, 1933.

Coccus viridis (Green) (Green scale)*

bCamp & Wilmot, J. Ec. Ent. 25: 483–486, 1932.

Crawford, Hawaii Ext. B. 9: 7–9, 1931.

Pemberton, Hawaiian Ent. Soc. P. 8: 511, 1934.

Pope, Hawaii B. 71: 14, 1934.

Cochineal bug, see Dactylopius tomentosus**Cochliomyia americana (Screw-worm)***

iBissell, Ga. B. 189, 1935, 11P.

Cory, Ala. St. Vet. R. f. 1934: 24–28.

Knapp, Fla. Grow. 42(8): 10–11, 1934.

Mex. Agr. & Fomento, Principales Plagas: 243, 1930.

Cochliomyia hominivorax, see Cochliomyia americana**Cochliomyia macellaria F. (Secondary screwworm)***

iBishopp, USDA YB f. 1934: 220–222.

Black, Cattleman 21(3): 27, 1934.

Buckley, USDA FB 1652: 62, 1931.

Buckley & Bunyea, USDA FB 1652 rev.: 67, 1933.

Collum, Med. Assoc. Ga. J. 23: 402, 1934.

iDoane, Common Pests: 51–53, 1931.

Dunn, Psyche 41: 177, 1934.

biFine & Alexander, J. Bone & Jt. Surg. 16: 573–574, 1934.

Hall, USDA FB 1330, rev.: 11–12, '32.

Knapp, Fla. Grow. 42(8): 10–11, 1934.

Laake & Cushing, J. Ec. Ent. 23: 967, 1930.

Marlatt, USDA Ent. R. f. 1930: 62–63;

R. f. 1931: 71–72; R. f. 1932: 30; R. f. 1933: 38–39.

Marsh, Nat. Wool Grow. 21(3): 26, '31.

biMatheson, Med. Ent. 379–383, 1932.

Mex. Agr. & Fomento, Principales Plagas: 243, 1930.

Peraza, La Hacienda 26: 132–134, '31.

Rawson, Sci. Month. 39: 500, 1934.

iRiley & Johannsen, Med. Ent. 382–383, 1932.

Robinson, J. Lab. & Clin. Med. 18: 411, 1933.

Sanders & Tissot, Fla. P. B. 465, 1934, 2P.

iSanderson, Ins. Pests Farm ed. 3: 503–504, 1931.

Van Volkenberg, P.R. Mayaguez R. f. 1931: 25, 1932.

iUSDA Ext. Serv. Rev. 5(1): 10, 1934.

Cochliomyia macellaria—Chemotropic responses

Laake et al., USDA TB 270: 1–3, 1931.

Cochliomyia macellaria—Eggs—Incubation

biMelvin, Ann. Ent. Soc. Amer. 27: 406–410, 1934.

Cochliomyia macellaria—Parasites

biRoberts, USDA TB 365: 17–18, 1933

Cochliomyia macellaria—Traps

Bishopp, USDA FB 734 rev. 1930, 14P.

Cattleman 20(12): 28, 1934.

Cochliomyia macellaria and myiasis

Ormsby, Pract. Treat. Dis. Skin. ed. 4: 1078–1079, 1934.

Cochliomyia macellaria and osteomyelitis

Bishopp, USDA YB f. 1932: 208.

Cochliomyia spp.

Bishopp, J. Parasit. 20: 337, 1934.

Cocklebur aphid, *see* *Hydaphis xanthii*

Cocklebur bill bug, *see* *Rhodobaenus tredecimpunctatus*

Cockroaches

biBrown, U. S. Nav. Med. B. 31: 253-268, 1933; B. 32: 294-317, 1934.

bCook, U. S. Nav. Med. B. 32: 246-247, 1934.

Doane, Common Pests: 339-342, 1931.

Ford & Covert, S.Dak. Ext. C. 320: 14, 1933.

Gunn, Sci. News Letter 20: 149, 1931.

iHarrison, Purdue Agr. 26: 34, 45, 1931.

Hinds, Extermin. Log 1(4): 7, 14, 1933.

Klinefelter, Missouri Farm 26: 6, 1934.

Leechman, Can. Dept. Mines, Nat. Mus. B. 67: 139, 1931.

iLillington, Hygeia 12: 517-518, 520, 1934.

biMarcovitch, Tenn. B. 147: 6-8, 1933.

biMex. Agr. & Fomento, Principales Plagas: 237, 1930.

bRidlon, U.S. Pub. Health R. 46: 1623-1636, 1931.

iSanderson, Ins. Pests Farm ed. 3: 491-493, 1931.

iStiner, Food Ind. 6: 216-217, 242, 1934.

Stone, Soap 9(3): 89, 1933.

iThone, Sci. News Letter 23: 31, 1933.

Wallace et al., Ind. Dept. Conserv. R. 14: 57, 1932.

Watson, Fla. Grow. 38(7): 16, 1930; 39(10): 16, 1931; 40(9): 27, 1932.

Williams, U.S. Pub. Health R. 46: 1680-1694, 1931.

Cockroaches—Fumigation

Ridlon, U.S. Pub. Health R. 46: 1623-1635, 1931.

Williams, U.S. Pub. Health R. 46: 1680-1694, 1931.

Cockroaches—Laboratory test animal

Sci. News Letter 25: 24, 1934.

Cockroaches—Libraries

McComb, Libraries 35: 190, 1930.

Cockroaches—Morphology

biRichards, J. Morph. 53: 435-441, 1932.

Cockroaches—Nicotine

biLevene & Richardson, J. Ec. Ent. 27: 1170-1175, 1934.

Cockroaches—Nutritive experiments

Cornell Countrym. 31: 170, 1934.

Cockroaches—Sodium fluoride

A.H.P., Textile Colorist 56: 178, 1934.

biHerrick & Griswold, N.Y. (C.) Ext. B.

202: 20-23, 1931.

Riepp, Extermin. Log 1(3): 12-13, '33.

Cockroaches—Temperature and humidity

Sci. News Letter 20: 149, 1931.

Cockroaches and disease

Rawson, Sci. Month. 39: 499, 1934.

bRead, Amer. Rev. Tubercl. 28: 267-272, 1933.

bRidlon, U.S. Pub. Health R. 46: 1624-1625, 1931.

Cockscumb gall aphid, *see* *Colopha ulmicola*

Coconut insects

Leonard, P.R. Ins. R. f. 1929-30: 116-117, 1931.

Pierce, Ent. News 45: 4, 1934.

biWolcott, Ec. Ent. of West Indies 357-377, 1933.

Zetek, P. Ent. Soc. Wash. 36: 261, '34.

iPop. Mech. 54: 97, 1930.

Coconut leaf miner, *see* *Promecotheca cumingi*

*Coconut leaf roller, *see* *Omiodes blackburni* Butl.

*Coconut mealy bug, *see* *Pseudococcus nipae* Mask.

Cocytius—Key

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 51, 1930.

Codatractus cyledis

iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 18, 1934.

*Codling moth, *see* *Carpocapsa pomonella*

Coelambus columbianus, quebecensis

nBrown, Can. Ent. 62: 87-88, 234-235, 1930.

Coelinidea meromyzae

Gahan, USDA Misc. Pub. 174: 147, 1933.

Coelioxys spp.

nCockerell, Amer. Mus. Nov. 466: 5-6, 1931; 732: 3-4, 1934.

Cockerell, Bklyn. Ent. Soc. B. 27: 15-16, 1932.

Coeloglutus bicoloripes

nVan Duzee, Amer. Mus. Nov. 655: 15-16, 1933.

Coeloides dendroctoni

nCushman, J. Wash. Acad. Sci. 21: 303, 1931.

- Coeloides dendroctoni* *Cont'd*
 biDeLeon, J. N.Y. Ent. Soc. 42: 297-316, 1934.
- Coeloides scolyti*
 nCushman, J. Wash. Acad. Sci. 21: 303-304, 1931.
- Coelomera cayennensis*
 Wheeler & Darlington, Psyche 37: 115, 1930.
- Coelopisthia forbesii*
 bGahan, USDA Misc. Pub. 174: 145-146, 1933.
- Coelosternus sulcatulus*
 iLeonard, P.R. Dept. Agr. 14: 159-165, 1930.
 Leonard, P.R. Ins. R. f. 1929-30: 117, 1931.
- Coenagrion interruptum*
 inNeedham, Bernice P. Bishop Mus. B. 98: 111-112, 1932.
- Coenagrionidae*
 Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 74-75, 82-83, 1932.
- Coenia curvicauda*
 Cresson, Trans. Amer. Ent. Soc. 56: 119-120, 1930.
- Coenolispa, C. erratica*
 inMalloch, Bernice P. Bishop Mus. B. 98: 194-195, 1932.
- Coenosia* spp.
 binHuckett, Trans. Amer. Ent. Soc. 60: 57-119, 133-198, 1934.
- Coenus delius*
 biBaker, Can. J. Res. 4: 194-196, 1931.
- *Coffee-bean weevil, *see* *Araecerus fasciculatus* Deg.
- Coffee insects**
 Crawford, Hawaii Ext. B. 9: 7-17, '31.
 Howard, Hist. of Appl'd Ent.: 360, '30.
 Medina, P.R. Ext. B. 6: 36, 1935.
 biWolcott, Ec. Ent. of W. I.: 311, 339, 1933.
- Coffee leaf miner, *see* *Leucoptera coffeella*.
- Coffee stem borer, *see* *Apatte monachus*
- Coffee tree cricket, *see* *Chremon repentinus*.
- Cogia cajeta eluina, freudiae*
 inWilliams & Bell, Trans. Amer. Ent. Soc. 57: 256-257, '31; 60: 124, 1934.
- Colaenis julia*
 Bates, Ent. News 45: 168-169, 1934.
- Colaenis phaetusa*
 Glazenbrook, Ent. News 45: 251-252, 1934.
- Colaspidea grata, pallipes, pomonae*
 nFall, Can. Ent. 65: 230-232, 1933.
- Colaspis arizonensis*
 nSchaeffer, J. N.Y. Ent. Soc. 41: 466-467, 1933.
- Colaspis brunnea* (F.) (*Grape colaspis*)*
 biBigger, Ill. St. Acad. Sci. Trans. 24: 235-240, 1931.
 Davis, Ind. Acad. Sci. P. 39: 295, 1930.
 Walker, Fla. R. f. 1932: 85.
- Colaspis brunnea floridana*
 nSchaeffer, J. N.Y. Ent. Soc. 41: 471, 1933.
- Colaspis crinicornis, flavocostata*
 nSchaeffer, J. N.Y. Ent. Soc. 41: 469, 470, 1933.
- Colaspis lata, viridiceps*
 nSchaeffer, J. N.Y. Ent. Soc. 41: 468-470, 1933.
- Coleomegilla cottlei*
 nNunenmacher, Pan-Pac. Ent. 10: 20-21, 1934.
- Coleomegilla floridana*
 Hubbell, Ann. Ent. Soc. Amer. 25: 504, 1932.
- Coleomegilla fuscilabris*
 Gill, Ga. St. Ent. B. 77: 42, 1933.
 iMoznette, USDA FB 1654: 41, 1931.
- Coleophora caryaefoliella* Clem. (*Pecan cigar case bearer*)*
 Moznette et al, USDA FB 1654: 27-28, 1931.
 Walker, Fla. R. 45: 76, 1931.
 Walker, Fla. R. f. 1932: 83-84.
- Coleophora fletcherella* Fern. (*Cigar case bearer*)*
 iCaesar, Ont. B. 356: 39-41, 1930.
 Pack, Utah Acad. Sci. P. 7: 59, 1930.
 Pack, Utah B. 216: 17, 1930.
 Pettit & Hutson, Mich. C. B. 137: 10-11, 1931.
 iQuaintance & Siegeler, USDA FB 1270 rev.: 57-58, 1931.
- Coleophora heinrichella*
 inMcDunnough, Can. Ent. 65: 167-168, 1933.
- Coleophora laricella* Hbn. (*Larch case bearer*)*

- iBailey, Cult. Conifers North Amer.: 349-351, 1933.
 Britton, Conn. B. 344: 122, 1933.
 Felt, J. Ec. Ent. 26: 46-47, 1933.
 iO'Kane, N.H. Agr. R. f. 1931-32: 105-106.
 iPeirson, Field Book of Destruct. For. Ins. ed. 2, 13: 1932.
 Pettit, Mich. Ent. R. f. 1931: 21.
 Swaine, For. Chron. 9(4): 11, 1933.
 Twinn, Que. Soc. Prot. Pl. R. 23/24: 161, 1932.
 Twinn, Ent. Soc. Ont. R. 65: 124, '34.
 Violette, Maine For. Com. R. 19: 63, 1932.
- Coleophora laricella—Parasites**
 bDowden, Ann. Ent. Soc. Amer. 27: 601-602, 1934.
- Coleophora limosipennella Dup. (Elm case bearer)***
 McDaniel, Mich. Sp. B. 243: 42, 1933.
- Coleophora malivorella Riley (Pistol case bearer)***
 iCaesar, Ont. B. 356: 41, 1930.
 Fromme, W.Va. B. 254: 36, 1932.
 iFromme, W.Va. B. 263: 21-22, 1934.
 biGould, W.Va. B. 246, 1931, 12p.
 Gould & Peairs, W.Va. B. 244: 36-37, 1931.
 Peairs & Gould, J. Ec. Ent. 23: 188-190, 1930.
 iPettit, Mich. Ent. R. f. 1931: 6-7.
 iPettit, Mich. R. 44: 257, 1931.
 Pettit & Hutson, Mich. C. B. 137: 10-11, 1931.
 iQuaintance & Siegler, USDA FB 1270 rev.: 58-59, 1931.
 Sanderson, Ins. Pests Farm ed. 3: 360-361, 1931.
- Coleophora monardella**
 inMcDunnough, Can. Ent. 65: 166-167, 1933.
- †**Coleophora pruniella Clem. (Cherry case bearer)***
 Brittain, J. Agr. & Hort. 36: 234, 1933.
 [Christensen], Wis. B. 428: 100-101, 1934.
 Clark, Wis. B. 425: 85-87, 1932.
 Fluke & Lilly, J. Ec. Ent. 26: 513-514, 1933.
 Gardner, Mich. R. f. 1931-1932: 30.
 iGranovsky, Wis. B. 420: 13-15, 1931.
- Hutson, J. Ec. Ent. 24: 54-56, 1931.
 iHutson, Mich. Quar. B. 14: 188-190, 1932.
 ilHutson, Mich. Sp. B. 244: 7-10, 1933.
 bLilly & Fluke, J. Ec. Ent. 26: 805-812, 1933; 27: 1142-1147, 1934.
 iPettit, Mich. Ent. R. f. 1930: 8; R. f. 1931: 9-11.
 iPettit, Mich. St. Bd. Agr. R. 69: 210, 1930.
 iPettit, Mich. R. 44: 259-261, 1931.
 Pettit & Hutson, Ent. Soc. Ont. R. 61: 33, 1931.
 Russell, Wis. B. 410: 51-53, 1930.
 iStandard Oil Co. Tech. Div. B. 141-B: 15-16, 1931.
- Coleophora pruniella—Parasites**
 bDoner, Ann. Ent. Soc. Amer. 27: 435-442, 1934.
- Coleophora pruniella—Spraying**
 Christensen, Wis. B. 421: 82-84, 1932.
 Fluke, Wis. Hort. 22: 129, 227, 1932.
 ilGranovsky, Wis. Hort. 20: 168-169, 189, 1930.
 bHutson, J. Ec. Ent. 25: 116-120, 1932.
- Coleophora salmani**
 Felt, Nat. Shade Tree Conf. P. 8: 80, 1932.
 iGillespie, Maine For. Serv. B. 7, 1932, 23p.
 Hyslop, J. Ec. Ent. 27: 561, 1934.
 iPeirson, Field Book of Destruct. For. Ins. ed. 2: 11, 1932.
- biTaylor, J. Ec. Ent. 23: 587-595, 1930.
 Violette, Maine For. Com. R. 19: 62-63, 1932.
- Coleophora spp.**
 inMcDunnough, Can. Ent. 65: 160-168, 1933.
 Maltais, Que. Pom. & Fr. Grow. Soc. R. 40: 98, 1933.
- Coleoptera**
 Carr, Can. Ent. 62: 278-279, 1930.
 Fall, Can. Ent. 64: 56-62, 1932.
 Fall, Pan-Pac. Ent. 10: 171-174, 1934.
 iHinton & Ancona, Mex. Univ. Nac. Inst. Biol. Anal. 5: 243-248, 1934.
 Knull, Ent. News 43: 42-45, 62-67, 1932; 45: 207-212, 1934.
 nKnull, Ohio J. Sci. 34: 333-336, 1934.
 bLeng & Mutchler, Sup. 2 & 3 to Cat. of Coleoptera 1933: 112p.

Coleoptera—Cont'd

- biStruble, Cal. Univ. Pubs. in Ent. 5:
105-134, 1930.
- Coleoptera—Alabama**
Löding, Bklyn. Ent. Soc. B. 28: 139-
151, 1933.
- Coleoptera—Aquatic—Montreal**
Beaulne, Nat. Can. 57: 116, 1930.
- Coleoptera—California**
bDavis, South Cal. Acad. Sci. B. 31: 75-
87, 1932.
- Coleoptera—Collecting—Popillia japonica
trap**
Metzger & Sim, J. Ec. Ent. 26: 296-
297, 1933.
Sheppard, Ent. Soc. Ont. R. 65: 93-
97, 1934.
- Coleoptera—Collecting—Smoking stumps**
Leech, Bklyn. Ent. Soc. B. 26: 12, '31.
- Coleoptera—Collecting—Turpentine or-
chards**
Löding, Bklyn. Ent. Soc. B. 29: 98, '34.
- Coleoptera—Ecology**
Chagnon, Nat. Can. 60: 289-302, 1933.
biWolcott & Montgomery, Amer. Mid-
land Nat. 14: 113-169, 1933
- Coleoptera—Florida**
Blatchley, Can. Ent. 62: 28-35, 1930
- Coleoptera—Flushing, L.I.**
Cooper, Bklyn. Ent. Soc. B. 25: 21-24,
1930.
- Coleoptera—Glacier Park, Montana**
Mank, Can. Ent. 66: 73-81, 1934.
- Coleoptera—Gulf of St. Lawrence**
Brown, Can. Ent. 62: 231-232, 239-
250, 1930.
iBrown, Can. Ent. 64: 198-209, 1932.
- Coleoptera—Hawaii**
Perkins, Hawaiian Ent. Soc. Proc. 7:
509-515, 1931. P. 8: 265-272, 1933.
- Coleoptera—Interception**
Whitney, Hawaii Bd. Comm. Agr. For.
Bien. R.f. 1930: 92-93, 1931.
- Coleoptera—Kansas**
Knaus, J. Kans. Ent. Soc. 3: 79-80, '30.
- Coleoptera—Larvae**
biBoving & Craighead, Ent. Amer. n.s
11, 1930-31. 361p.
- biWhitehead, Can. J. Res. 6: 227-252,
1932.
- Coleoptera—Leng's classification**
Hatch, Ent. News, 42: 76, 1931.

Coleoptera—Marquesas

- iBlair, Bernice P. Bishop Mus. B. 98:
241-244, 1932.

Coleoptera—Montana

- Hatch, Can. Ent. 65: 5-15, 1933.

Coleoptera—Mounting

- Dietrich, J. Ec. Ent. 24: 874-877, 1931.

Coleoptera—Nomenclature

- Hopping, B.C. Ent. Soc. P. 31: 33-35,
1934.

Coleoptera—Oklahoma

- iHatch, Univ. Okla. Biol. Surv. Pub. 2:
15-26, 1930.
Hatch & Ortenburger, Univ. Okla.
Biol. Surv. Pub. 2: 7-14, 1930.

Coleoptera—Parasites

- Christie, J. Agr. Res. 42: 463-482, '31.

Coleoptera—Pretarsus (Articularis)

- iHayes & Kearns, Ann. Ent. Soc. Amer.
27: 21-33, 1934.

Coleoptera—Quebec

- biChagnon, Nat. Can. 60: 166-178, 202-
213, 319-330, 343-351, 1933; 61: 18-
26, 84-95, 99-110, 137-157, 182-
198, 215-230, 269-282, 309-319, '34;
62: 40-52, 1934.

Coleoptera—Rare North American

- iBlaisdell, Trans. Amer. Ent. Soc. 60:
317-326, 1934.
Davis, Bklyn. Ent. Soc. B. 26: 187-188,
1931.

Coleoptera—Rainy River District, Ont.

- Brimley, Can. Field-Nat. 44: 135-140,
1930.

Coleoptera—Santa Cruz Islands, Calif.

- Fall & Davis, Can. Ent. 66: 143-144,
1934.

Coleoptera—Sense organs

- biMcIndoo, Smithsn. Misc. Col. 82(18):
1931, 70p.

Coleoptera—Synopsis

- Metcalf & Flint, Fundamentals of In-
sect Life: 229-252, 1932.

Coleoptera—Timagami, Canada—List

- Brown, Can. Ent. 66: 225-231, 1934.

Coleoptera—Traps

- Barber, J. Elisha Mitchell Sci. Soc. 46:
259-266, 1931.
Moennich, Bklyn. Ent. Soc. B. 29: 97-
98, 1934.

Coleoptera—Utah

Knowlton, Fla. Ent. 14: 36-37, 53-56,
75-77, 1930; 15: 10, 1931.

Knowlton, J. Kans. Ent. Soc. 7: 79-86,
1934.

Pack, Ent. News 41: 219-222, 1930.

Tanner & Hayward, Utah Acad. Sci.
P. 11: 216-221, 1934.

Coleoptera—Utah, Cache Valley

Knowlton & Thomas, Utah Acad. Sci.
P. 11: 245-246, 1934.

Coleoptera—Western Canada

Hopping, Can. Ent. 63: 233-238, 1931.

bHopping, Can. Ent. 65: 281-286, 1933.

Coleoptera—Zion National Park

binTanner, Ent. Soc. Amer. Ann. 27: 43-
49, 1934.

Coleoptera as parasites of man

biRiley & Johannsen, Med. Ent. 165-
172, 1932.

Coleoptera, see also Beetles**Coleotichus adamsoni**

nVan Duzee, Bernice P. Bishop Mus. B.
98: 177-178, 1932.

Coleotichus blackburniae

Williams, Hawaiian Ent. Soc. P. 8:
387-388, 1934.

Colgorma campestris

binMetcalf & Bruner, Psyche 37: 403, '30.

Colgorma montana

binMetcalf & Bruner, Psyche 37: 401-403,
1930.

Colias eurytheme (Alfalfa caterpillar)*

Britton, Conn. B. 349: 447, 1933.

Britton & Harte, Bklyn. Ent. Soc. B.
28: 108-115, 1933.

Brower, J. N.Y. Ent. Soc. 40: 510, '32.

Cartwright et al, Cal Agr. Mo. B. 22:
160, 1933.

Clark, P. Ent. Soc. Wash. 32: 81-82,
1930.

Clark, Sci. Month. 33: 173, 1931.

Cockerell, Bklyn. Ent. Soc. B. 25: 300,
1930.

Gunder, Can. Ent. 64: 277-278, 1932.

Hurlbut, Can. Field-Nat. 45: 42, 1931.

O'Byrne, Ent. News 43: 15-16, 1932.

Rogers, Bklyn. Ent. Soc. B. 26: 188,
1931.

Saunders, N.Y. St. Mus. Hdbk. 13:
214-216, 1932.

Colias meadii

nGunder, Can. Ent. 66: 125, 1934.

Colias nastes

Gunder, Can. Ent. 64: 278, 1932.

Colias philodice (Clouded sulphur)*

Clark, Sci. Month. 33: 173, 1931.

iSaunders, N.Y. St. Mus. Hdbk. 13:
209-214, 1932.

Watson, J. N.Y. Ent. Soc. 40: 273, '32.

Collard insects

Miller, La. B. 258: 5, 1934.

Collatia

nCurran, Fam. & Genera of North Amer.

Diptera: 464, 1934.

Collembola

Brown, Can. Ent. 66: 209, 1934.

biFolsom, Hawaiian Ent. Soc. P. 8: 51-
92, 1932.

bFolsom, J. Ec. Ent. 26: 934-939, 1933.

biJames, Royal Can. Inst. Trans. 41: 77-
116, 1933.

Maynard, Bklyn. Ent. Soc. B. 26:
217-220, 1931.

Mills, Can. Ent. 62: 200-203, 1930.

Mills, Amer. Mus. Nov. 464: 1-11, '31.

bMills, P. Iowa Acad. Sci. 37: 389-392,
1931.

Mills, Iowa St. Col. J. Sci. 6: 263-276,
1932.

biMills, Collembola of Iowa 1934, 143p.

bMills & Rolfs, Pan-Pac. Ent. 9: 77-83,
1933.

Wallace et al, Ind. Dept. Conserv. R.
14: 54, 1932.

Colletes spp.

nCockerell, Ann. Ent. Soc. Amer. 26:
41-43, 1933.

biPayne, J. Morph. 53: 545, 1932.

Rau, Acad. Sci. St. Louis Trans. 28:
219, 1934.

Sumner, Col.-Wyo. Acad. Sci. J. 1(4):
59-60, 1932.

Sumner, Univ. Col. Studies 20: 91-92,
1932.

nSwenk, Psyche 37: 219-222, 1930.

**Colletotrichum cajani and disease of
pigeon pea**

Krauss, Hawaii B. 64: 40-41, 1932.

Collinellula, see Enlinia**Colliuris (Odacanthella) gundlachi**

nDarlington, Psyche 41: 122-123, 1934.

- Colliuris (Pseudocasnonia) noah*
 nDarlington, *Psyche* 41: 123-124, 1934.
- Collyria calcitrator*
 Weir, *Can. Min. Agr. R. f.* 1930-1931: 136; *R. f.* 1931-1932: 177; *R. f.* 1932-1933: 53.
J. Ec. Ent. 23: 773, 1930; 26: 743, 1933.
- Colobogaster aureoviridis, gigas*
 nFisher, *PUSNM* 82(27): 1-4, 1933.
- Coloboneura longicornis*
 nCurran, *Amer. Mus. Nov.* 467: 11-12, 1931.
- Colon discretum, pribilof, rectum, rufum, schwarzi*
 nHatch, *J. N.Y. Ent. Soc.* 41: 230-232, 1933.
- Colopha ulmicola (Elm cockscomb gall)**
 iAaron, *Nature Mag.* 18: 159, 1931.
 Chambers & Thompson, *Wis. Dept. Agr. B.* 123: 35, 1931.
- Color—Influence on insects**
 biHermes & Ellsworth, *J. Ec. Ent.* 27: 1059-1061, 1934.
Pop. Mech. 54: 982, 1930.
- Color variation in insects**
 biWall, *Ann. Ent. Soc. Amer.* 26: 425-463, 1933.
- Color vision of insects**
 iLutz, *Nat. Hist.* 33: 565-576, 1933.
- Coloradalia**
 nCurran, *Fam. & Genera of North Amer. Diptera*: 467, 1934.
- Coloradia pandora Blake (Pandora moth)**
 iEssig, *Hist. of Ent.*: 35-38, 1931.
 iEssig, *Sci. Month.* 38: 185-186, 1934.
- **Colorado pine beetle, see Dendroctonus approximatus Dietz*
- **Colorado potato beetle, see Leptinotarsa decemlineata Say*
- Colpocephalum africana, echinatum, menoponoides*
 nEwing, *P. Ent. Soc. Wash.* 32: 117-119, 1930.
- Colpodes cinchonae, fractilinea, macer, vagepunctatus*
 nDarlington, *Psyche* 41: 93-96, 1934.
- Colpoptera clerodendri, insularis, maculata, nana*
 inDozier, *Amer. Mus. Nov.* 510: 19-22, 1931.
- Columbicola columbae (L.) (Slender pigeon louse)**
 biAncona, *Mex. Univ. Nac. Inst. Biol. Anal.* 5: 341-351, 1934.
 biMartin, *Can. Ent.* 66: 6-16, 1934.
- **Columbine borer, see Papaipema purpurifascia G. & R.*
- Columbine insects**
 biGriswold, *Ann. Ent. Soc. Amer.* 27: 545-549, 1934.
- **Columbine leaf miner, see Phytomyza aquilegiae Hardy*
- Coluocera maderae*
 Illingworth, *Hawaiian Ent. Soc. P.* 7: 378, 1931.
- Comasarcophaga, C. texana*
 inHall, *Ent. New* 42: 280-283, 1931.
- Comastes robustus*
 nPainter, *J. Kans. Ent. Soc.* 3(1): 4-5, 1930.
- Commellus, C. planus*
 inThomas, *J. Kans. Ent. Soc.* 6: 133-134, 1933.
- Common blue, Spring azure, see Lycaenopsis argiolus pseudargiolus*
- **Common cattle grub, see Hypoderma lineatum DeVill.*
- Common field cricket, see Gryllus assimilis*
- Common firefly, see Photuris pennsylvanica*
- **Common malarial mosquito, see Anopheles quadrimaculatus Say.*
- Common mealybug, see Pseudococcus citri*
- Common names of insects, see Insects—Common names**
- **Common red spider, see Tetranychus telarius L.*
- Common social wasp or Common wasp, see Polistes fuscatus var. pallipes*
- Common sugar cane wood ant, see Euterpes costaricensis*
- Common wax moth, see Galleria mellonella*
- Comperiella bifasciata*
 iSmith and Compere, *Cal. Cit.* 16: 328, 1931.
- Compodea fragilis*
 Ruggles, *J. Ec. Ent.* 27: 743, 1934.
- Composia fidelissima vagrans*
 nBates, *Psyche* 40: 123, 1933.
- Composia spp.*
 bBates, *Psyche* 40: 121-124, 1933.
- Compasilura concinnata*
 iBritton & Ashworth, *Conn. B.* 349: 407, 1933.

- Brown, USDA C. 176: 14-15, 1931.
 Collins, Nat. Shade Tree Conf. P. 7: 129, 1931.
 Collins & Jones, USDA YB f. 1932: 237.
 Gilliatt, Ent. Soc. Ont. R. 61: 13, 1931.
 Glendenning, B.C. Ent. Soc. P. 28: 31, 1931.
 MacAloney, N.Y. St. Col. For. B. 3(1): 53, 1930.
 Marlatt, USDA Ent. R. f. 1932: 24.
 biProper, J. Agr. Res. 48: 369-371, 1934.
 bSchaffner, Ann. Ent. Soc. Amer. 27: 588-592, 1934.
 bSmith, Ann. Ent. Soc. Amer. 26: 527, 1933.
 Weir, Can. Min. Agr. R. f. 1931-1932: 178.
 Wooldridge, J. Ec. Ent. 24: 775, 1931.
- Compsocus, C. elegans**
 inBanks, Psyche 37: 183-184, 1930.
- Compton tortoise, see Aglais j-album.**
- Comstock's mealybug, see Pseudococcus comstocki.**
- Comstockia subterranea**
 Martin, Pan-Pac. Ent. 8: 188, 1932.
- Conagenia, C. aegina, smithi, williamsi**
 nBanks, Amer. Acad. Arts and Sci. P. 69(1): 69-72, 1934.
- Condyllostylus spp.**
 inVan Duzee, Amer. Mus. Nov. 483: 1-14, 1931; 484: 1-3, 1931; 569: 1-8, 1932; 599: 1-3, 1933.
 iVanDuzee, BAMNH 61: 165-168, '31.
 inVan Duzee, Ent. News 43: 183-184, 1932.
 inVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 66, 1933.
- *Confused flour beetle, see Tribolium confusum Duv.**
- Conifer insects**
 Bailey, Cult. Conifers North Amer.: 338-354, 1933.
 biEasterling, Ohio J. Sci. 34: 140-143, 1934.
 Friend, Conn. B. 315: 614, 1930.
 McDaniel, J. Ec. Ent. 25: 841-843, '32.
- Conistra sidus**
 bCrumb, Bklyn. Ent. Soc. B. 27: 95-96, 1932.
- Congo floor maggot, see Auchmeromyia luteola**
- Coniopteryx haitiensis**
 nSmith, Ann. Ent. Soc. Amer. 24: 819-820, 1931.
- Coniopteryx marginalis**
 nBanks, Psyche 37: 189, 1930.
- Connective tissue mite, see Laminosioptes cysticola**
- Conocephalus cinereus**
 Hebard, Trans. Amer. Ent. Soc. 58: 334-335, 1932.
- Conocephalus fasciatus vicinus**
 Buckell, B.C. Ent. Soc. P. 27: 44-45, 1930.
- Conocephalus saltator**
 Illingworth, Pineapple News 4: 2, 33-34, 1930.
 Illingworth, Hawaiian Ent. Soc. P. 7: 407-408, 1931.
- Conocephalus vicinus**
 iHenderson, Utah C. 96: 32-33, 1931.
- Conoderus, C. bicarinatus**
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 294-300, 1932.
- Conoderus exsul, pallipes**
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 222, 239, 1933.
- Conoderus perversus, rudis**
 Brown, Can. Ent. 65: 173-175, 1933.
- Conopia acerni**
 Hamilton, Nat. Shade Tree Conf. P. 9: 69, 1933.
 Lipman, N.J. R. 55: 45, 1934.
 iMcDaniel, Mich. Sp. B. 238: 34-35, 1933.
- Conopia bibionipennis**
 iDownes, Can. Dept. Agr. Pam. 5, n.s. ed. 2: 18-19, 1931.
 iEssig, Hist. of Ent.: 242-244, 1931.
 Jones & Hanson, Wash. Ext. B. 180: 9, 1933.
 iSmith, Cal. B. 505: 32-33, 1931.
 Wilcox, Gray & Mote, Oreg. B. 296: 1932. 30p.
- Conopia corrusca (Clear wing moth)**
 Engelhardt, J. Ec. Ent. 25: 293-294, 1932.
- †Conopia exitiosa (Peach borer)***
 iAlden, Ga. St. Bd. Ent. B. 71: 8-9, '30.
 Bailey, Mass. Ext. Leaf. 146: 11-12, 1933.
 iBritton, Conn. B. 344: 139, 1933.
 Brown, Ala. Ext. C. 138: 19, 1933.

- †*Conopia exitiosa* (Peach borer) *Cont'd*
 Butler, J. Ec. Ent. 24: 851-854, 1931.
 Butler, Tenn. St. Hort. Soc. P. 26: 44-45, 1931.
 iButler, J. Ec. Ent. 25: 781-786, 1932.
 iCaesar, Ont. B. 356: 62-64, 1930.
 iDavis & Gardner, Ind. Ext. B. 176: 4-5, 1931.
 Eddy, Ky. St. Hort. Soc. Trans. 77: 84-85, 1932.
 Eddy et al, Ky. B. 353: 224-226, 1934.
 Essig, Hist. of Ent.: 240-241, 1931.
 Hamilton, Nat. Shade Tree Conf. P. 9: 61, 67-68, 1933.
 Harris, Iowa Hort. Soc. Trans. 67: 26-27, 1932.
 Hutson, Mich. Quar. B. 14: 29-30, '31.
 iHutson, Mich. Sp. B. 244: 34-37, 1933.
 Liston, Kans. Ent. Com. Bien. R. 13: 9, 1932.
 McDaniel, Mich. Sp. B. 238: 32-33, '33.
 biMex. Agr. & Fomento. Principales Plagas: 113-114, 1930.
 iMoznette, USDA FB 1557, rev.: 9-17, 1931.
 iMumford, Ill. R. 45: 133-135, 1932; R. 46: 144, 1933.
 Munro & Fox, N. & S. Dak. Hort. 5: 92, 1933.
 iNewcomer, USDA C. 270: 51-53, 1933.
 Pierstorff & Parks, Ohio Pl. Dis. & Insect Notes 1(9): 1-2, 1930.
 Potter et al, N.H. Ext. B. 47: 44-45, 1934.
 iQuaintance, Porter & Snapp, USDA FB 1246, rev. 1932, 13p.
 iQuaintance & Siegler, USDA FB 1666: 77-78, 1931.
 Ramsower, Ohio Ext. B. 128: 43-45, 1932.
 Ross & Putman, Ent. Soc. Ont. R. 64: 40, 1933.
 iSanderson, Ins. Pests Farm, ed. 3: 394-397, 1931.
 Sherwood, W. Va. Ext. C. 305: 31, 1934.
 Snapp, J. Ec. Ent. 25: 786-799, 1932.
 bSnapp & Thomson, J. Ec. Ent. 27: 771-779, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 72, 1933.
 Wakeland, Ida. St. Hort. Assoc. P. 36: 158, 1931.
 Woodward & Waller, N.J. Agr. Expt. Sta. 1880-1930: 238, 1932.
Conopia exitiosa—Insecticides
 Quaintance, Porter & Snapp, USDA FB 1246: 5-11, 1932.
Conopia exitiosa—Naphthalene
 bStear, J. Ec. Ent. 26: 903-906, 1933.
 †*Conopia exitiosa*—Paradichlorobenzene
 Brooks & McDowell, Tex. C. 70: 21, 1934.
 Butler, Tenn. St. Hort. Soc. P. 28: 64-68, 1932.
 Eshbaugh, Tex. Panhandle B. 12: 11-13, 1930.
 iHutson, Mich. Quar. B. 13: 110-112, 1931.
 Liston, Kans. Ent. Comm. Bien. R. 14: 7, 1934.
 Peck, N.Y. (C) Ext. B. 208: 26-28, '31.
 Phipps, Missouri Bot. Gard. B. 19: 116-117, 1931.
 Snapp & Thomson, J. Ec. Ent. 25: 136-137, 1932.
Conopia exitiosa and Phony peach disease
 Glenn, Ill. Dept. Agr. R. 17: 60-61, '34.
 Hoyt, USDA BPQ R. f. 1934: 35-37.
 Kellerman, Flor. Exch. 81(4): 17, '33.
 Midwest Fruitm. 6(8): 8, 1933.
 Rur. N.Y. 92: 218, 1933.
Conopia mellinipennis (Pacific oak clear wing)
 Burke, Cal. Agr. Mo. B. 21: 369, 1932.
 Burke, Nat. Shade Tree Conf. P. 9: 32, 1933.
Conopia opalescens (Western peach borer)*
 Barss & Mote, Oreg. Ext. B. 431: 11, 1931.
 Doane, Common Pests: 163-166, 1931.
 Essig, Hist. of Ent.: 238-240, 1931.
 Hamilton, Nat. Shade Tree Conf. P. 9: 66, 1933.
 McWhorter et al., Oreg. Ext. B. 470: 4, 1934.
 †*Conopia pictipes* (G. & R.) (Lesser peach borer)*
 iCaesar, Ont. B. 356: 65-66, 1930.
 Eddy, Ky. St. Hort. Soc. Trans. 77: 84, 1932.
 biGilbertson, S. Dak. B. 288, 1934, 22p.
 Hamilton, Nat. Shade Tree Conf. P. 9: 67, 1933.

- Harris, Iowa Hort. Soc. Trans. 67: 27-28, 1932.
- Hutson, Mich. Quar. B. 14: 29, 1931.
- Hutson, Mich. St. Hort. Soc. R. 61: 24-25, 1932.
- Hutson, Mich. Sp. B. 244: 33-34, 1933.
- Larsen, S.Dak. Bien. R. f. 1930/1932: 22.
- McDaniel, Mich. Sp. B. 238: 33, 1933.
- Marlatt, USDA Ent. R. f. 1930: 15.
- Munro & Fox, N. & S.Dak. Hort. 5: 92-93, 1933.
- Petch, Que. Pom. & Fr. Grow. Soc. R. 36: 99, 1929.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(9): 3-4, 1930.
- Quaintance & Siegler, USDA FB 1666: 78, 1931.
- Ross & Putman, Ent. Soc. Ont. R. 64: 40, 1933.
- Severin, N.Dak. R. f. 1933/1934: 38.
- Snapp, Cal. Agr. Mo. B. 20: 164, 1931.
- Snapp, Hoosier Hort. 13: 70-71, 1931.
- Snapp, USDA C. 172, 1931. 11p.
- iSnapp, USDA FB 1557, rev.: 27-29, 1931.
- iVogel & Neiswander, Ohio. Bi-Mo. B. 18: 51-54, 1933.
- Conopia pictipes—Paradichlorobenzene**
- iSnapp, USDA YB f 1932: 265-266.
- Snapp, Hoosier Hort. 15: 153-155, '33.
- bSnapp & Swingle, J. Ec. Ent. 23: 636-638, 1930.
- Snapp & Thompson, Amer. Fr. Grow. Mag. 51(10): 9, 1931.
- Ward, Ohio Ext. News 17(1): 1, 1931.
- Conopia pyri**
- iQuaintance & Siegler, USDA FB 1270 rev.: 87-88, 1931.
- Conopia rhododendri**
- Britton, Conn. B. 344: 155-156, 1933.
- biSoraci, N.J. Dept. Agr. C. 243: 38-39, 1934.
- White, J. Ec. Ent. 26: 633, 1933.
- Conopia rutilans (Strawberry crown moth)***
- Jardine, Oreg. Bien. R. f. 1928/1930: 86-87.
- iWilcox et al., Oreg. B. 296: 1-30, 1932.
- Conopia scitula**
- Moznette et al., USDA FB 1654: 48-49, 1931.
- Conopia tipuliformis (Currant borer)***
- Darrow & Detwiler, USDA FB 1398 rev.: 16, 1930; 1398 rev.: 16, 1933.
- Dean, Kans. St. Hort. Soc. Bien. R. 40: 148-149, 1930.
- Essig, Hist. of Ent. 241, 1931.
- Jones & Hanson, Wash. Ext. B. 180: 7, 1933.
- Munro & Fox, N. & S.Dak. Hort. 5: 93, 1933.
- Quaintance, USDA FB 1398 rev.: 16, 1934.
- Conopidae—North Dakota**
- Van Duzee, Ann. Ent. Soc. Amer. 27: 315-323, 1934.
- Conorhinopsylla, C. stanfordi**
- niStewart, Can. Ent. 62: 178-179, 1930.
- Conostigmus pulchellus**
- nWhittaker, P. Ent. Soc. Wash. 32: 133, 1930.
- Conotrachelus affinis, aratus**
- Porter, North Nut. Grow. Assoc. R. 23: 78, 1932.
- Conotrachelus asperatus, cinereus**
- nVan Dyke, Pan-Pac. Ent. 6: 158-160, 1930.
- Conotrachelus crataegi Walsh (Quince curculio)***
- Britton, Conn. B. 344: 153, 1933.
- Garman, Conn. B. 349: 428-429, 1933.
- Hedrick, N.Y. (Gen.) R. 51: 57, 1932.
- Quaintance & Siegler, USDA FB 1666: 76, 1931.
- Conotrachelus dimidiatus**
- biMex. Agr. & Fomento. Principales Plagas: 123, 1930.
- Conotrachelus juglandis**
- Britton, Conn. B. 344: 174-175, 1933.
- Porter, North. Nut. Grow. Assoc. R. 23: 78, 1932.
- †**Conotrachelus nenuphar (Hbst.) (Plum curculio)***
- iAlden, Ga. St. Bd. Ent. B. 71: 5-7, 1930; B. 73: 20-21, 1930.
- Bailey, Mass. Ext. Leaf. 146: 12, 1933.
- Bourne, Mass. B. 271: 257, 1931.
- Britton, Conn. B. 344: 73, 147-148, 1933.
- Butler, Tenn. St. Hort. Soc. P. 26: 42-43, 1931.
- iCaesar, Ont. B. 356: 54-56, 1930.
- bCagle, J. Ec. Ent. 23: 157-162, 1930.

- †*Conotrachelus nenuphar* (Hbst.) *Cont'd*
 iChandler, J. Ec. Ent. 25: 101-106, '32.
 iChapman & Hammer, N.Y. (Gen.) B. 606: 5-13, 1932.
 Clarke, Ga. St. Bd. Ent. B. 75: 35-36, 1931.
 Crosby, N.Y. St. Hort. Soc. P. 77: 10, 1932.
 iCummings, Vt. Com. Agr. Bien. R. 15: 139-140, 1930.
 Cutright, Ohio B. 470: 87-88, 1931.
 Davis, Ind. Acad. Sci. P. 39: 298, '30.
 iDavis & Gardner, Ind. Ext. B. 176: 8-9, 1931.
 biDeLong, Ohio J. Sci. 34: 188-189, 1934.
 Doane, Common Pests: 151-153, 1931.
 Dozier & Williams, Del. B. 162: 34-37, 1929.
 biDozier, Williams & Butler, Del. B. 175, 1932, 43p.
 Driggers, N.J. R. 52: 192-193, 1931.
 Drinkard, Va. Poly. Inst. R. f. 1927-1931: 38-39.
 Eblen, Ky. St. Hort. Soc. Trans. 76: 71-78, 1931.
 Eddy, Ky. St. Hort. Soc. Trans. 76: 145-153, 1931; 77: 83-84, 1932.
 iFlint, Amer. Fr. Grow. Mag. 50(2): 22, 1930.
 Flint & Chandler, Ill. St. Hort. Soc. Trans. 66: 527, 1932.
 Floyd, Ky. St. Hort. Soc. Trans. 77: 88-90, 1932.
 Garman, Conn. B. 349: 453-454, 1933.
 iGarman, Conn. C. 99: 47-53, 1934.
 Gould, Mass. Fr. Grow. Assoc. R. 36: 34-41, 1930.
 iGranovsky, Minn. Hort. 59: 60-61, '31.
 Hodgkiss, Penn. St. Hort. Assoc. News 8: 20, 1931.
 Hutson, Mich. St. Hort. Soc. R. 62: 100-101, 1933.
 Hutson, Mich. Sp. B. 244: 16-19, 1933.
 McCue, Del. Ext. B. 17: 55-56, 1933.
 McCue, Del. Ext. B. 20: 41-42, 1934.
 Maltais, Que. Pom. & Fr. Grow. Soc. R. 40: 100, 1933.
 Marcovitch & Stanley, Tenn. St. Hort. Soc. R. 27: 91-92, 1931.
 Marlatt, USDA Ent. R. f. 1930: 11-13; R. f. 1931: 8-9; R. f. 1932: 3; R. f. 1933: 5-6.
 ibMex. Agr. & Fomento. Principales Plagas: 112-113, 1930. ~~114~~
 iMumford, Ill. R. 43: 139-143, 1930; 44: 142, 1931; 45: 137-138, 1932.
 iMunro & Riddle, N.Dak. C. 42 rev.: 46-47, 1933.
 Petch, Que. Soc. f. Prot. Pl. R. 22: 33-34, 1931.
 iPettit & Hutson, Mich. C. B. 137: 49-51, 1931.
 Pickett & Filinger, Kans. C. 169: 15, 1932.
 Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 2: 4, 1931.
 Porter, Mass. Fr. Grow. Assoc. R. 36: 42-47, 1930.
 Prather, Tenn. Bien. R. f. 1929-1930: 134-136, 1931.
 Prather, Tenn. St. Hort. Soc. P. 26: 19-21, 1931.
 iQuaintance & Siegler, USDA FB 1270 rev.: 6-8, 1931; FB 1666: 67-68, '31.
 Rasmussen, N.H. Hort. Soc. R. 20: 140-142, 1931.
 biRose et al, USDA Misc. Pub. 168: 39-40, 1933.
 iRoss, Can. Dept. Agr. B. 129: 40-41, '30.
 Ross, Can. Hort. Fr. & Truck ed. 53: 33-34, 1930.
 Ross & Putnam, Ent. Soc. Ont. R. 64: 39, 1933.
 iRuggles, Minn. Hort. 61: 154-155, '33.
 iSanderson, Ins. Pests Farm, ed. 3: 315-319, 1931.
 Snapp, Assoc. South. Agr. Work. P. 31: 421-422, 1930.
 Snapp, Md. St. Hort. Soc. R. 32: 187-206, 1930.
 Snapp, USDA TB 188, 1930, 90p.
 Snapp, Va. St. Hort. Soc. P. 35: 117-135, 1930.
 Snapp, USDA FB 1557 rev.: 1-7, 1931.
 Snapp & Thomson, J. Ec. Ent. 25: 811-815, 933, 1932.
 Stearns, Peninsula Hort. Soc. Trans. 44: 115-126, 1930.
 bStearns, J. Ec. Ent. 24: 62-65, 1931.
 Stearns, Del. B. 188: 30-31, 1934.
 Stearns & Haden, Peninsula Hort. Soc. Trans. 46: 107-112, 1932.
 Stearns, Haden & MacCreary, Del. B. 188: 30, 1934.

- Stearns & Williams, Del. B. 167: 27-29, 1930.
- Stearns et al, Del. B. 172: 34-35, 1931; B. 179: 34-36, 1932.
- Twinn, Que. Soc. Prot. Pl. R. 23/24: 155, 1932.
- Twinn, Ent. Soc. Ont. R. 64: 71, 1933; R. 65: 119, 1934.
- Van Alstyne, N.Y. (Gen.) C. 134: 8, 1932.
- Whitcomb, Conn. Pom. Soc. P. 40: 46-53, 1931.
- Whitcomb, Mass. Fr. Grow. Assoc. Inc. R. 37: 76-80, 1931.
- biWhitcomb, Mass. B. 250: 14, 1932; B. 280: 217-218, 1932; B. 285: 11-14, 1932; B. 293: 32-33, 1933; B. 305: 34, 1934.
- Whitcomb, J. Ec. Ent. 26: 415-419, '33.
- Zappe, Conn. Pom. Soc. P. 41: 21-23, 1932.
- Conotrachelus nenuphar—Burying peach drops**
Snapp & Thomson, J. Ec. Ent. 24: 559-560, 1931; 25: 415-416, 1932.
- Conotrachelus nenuphar—Hibernation**
biWhitcomb, Mass. B. 285: 11, 1932.
- Conotrachelus nenuphar—Jarring**
iSnapp & Thomson, J. Ec. Ent. 24: 1082-1083, 1931.
Snapp & Thomson, USDA Off. Rec. 10: 203, 1931.
- Conotrachelus nenuphar—Sex differentiation**
iThomson, J. Ec. Ent. 25: 807-810, '32.
- Conotrachelus nenuphar—Spraying**
Crosby, N.Y. St. Hort. Soc. P. 77: 10, 1932.
iMumford, Ill. R. 46: 144-146, 1933.
Snapp, J. Ec. Ent. 23: 699-704, 1930.
- Conotrachelus nenuphar—Sun effect**
Snapp & Thomson, J. Ec. Ent. 24: 762-763, 1931.
- Conotrachelus nenuphar—Temperature**
Whitcomb, Mass. Fr. Grow. Assoc. R. 38: 138-142, 1932.
biWhitcomb, Mass. B. 285, 1932, 16p.
- Conotrachelus nigromaculatus**
nVan Dyke, Pan-Pac. Ent. 6: 161, 1930.
- Conotrachelus retentus**
Burkett, Tex. Dept. Agr. B. 111: 207-208, 1932.
- Porter, Amer. Nut. Grow. Assoc. R. 23: 78, 1932.
- Conotrachelus setiferous**
nVan Dyke, Pan-Pac. Ent. 6: 160-161, 1930.
- Contarinia gossypii**
bRainwater, J. Ec. Ent. 27: 758-760, '34.
- Contarinia maculipennis**
nFelt, Hawaiian Ent. Soc. P. 8: 247-248, 1933.
Fullaway, Hawaiian Ent. Soc. P. 8: 361, 1934.
Swezey, Hawaiian Ent. Soc. P. 8: 212, 236, 1933.
- Contarinia pyrivora (Riley) (Pear midge)***
Britton, Conn. B. 344: 141, 1933.
Crosby, N.Y. St. Hort. Soc. P. 77: 13, 1932.
Hartzell, N.Y. St. Hort. Soc. P. 76: 180-197, 1931.
Hartzell, J. Ec. Ent. 25: 351-355, '32.
Hedrick, N.Y. (Gen.) R. 50: 58, 1931; R. 51: 56-57, 1932.
Ladd, N.Y. (Gen.) R. 52: 56-57, 1933.
Mundinger, J. Ec. Ent. 24: 196-200, '31.
iMundinger & Hartzell, N.Y. (Gen.) C. 130, 1932, 7p.
- Convelinus, C. analis castranus**
nBall, Can. Ent. 63: 220, 228, 1931.
- *Convergent ladybeetle, see Hippodamia convergens Guer.**
- Conwentzia hageni**
iBritton, Conn. B. 349: 446, 1933.
biQuayle, Cal. B. 542: 13-14, 1932.
- Cootie, see Pediculus humanus corporis**
- Copablepharon canariana, contrasta, serrata**
nMcDunnough, Can. Ent. 64: 104-105, 1932.
- Copaeodes minima**
Bell, Bklyn. Ent. Soc. B. 25: 8, 1930.
- Copestylum bequaerti**
nCurran, Amer. Mus. Nov. 416: 2-3, 1930.
- Copestylum salti**
nCurran, Amer. Mus. Nov. 413: 3-4, '30.
- Cophes gibbus**
Van Dyke, Pan-Pac. Ent. 6: 164, 1930.
- Cophura spp.**
nBromley, Ann. Ent. Soc. Amer. 27: 92, 1934.

- Cophura* spp. *Cont'd*
 nCurran, Amer. Mus. Nov. 415: 10-11, 1930.
 nCurran, Amer. Mus. Nov. 487: 4-8, '31.
- Copidosoma geniculatum*
 bDowden, Ann. Ent. Soc. Amer. 27: 600, 1934.
 Slate, Conn. B. 347: 276, 1933.
- Copidosoma pyralidis*
 iPack, Utah B. 216: 15-16, 1930.
- Coptopteryx phippii*
 Schaus, J. Wash. Acad. Sci. 22: 147-148, 1932.
- Coprinae—Morphology*
 biMohr, Ill. St. Acad. Sci. Trans. 22: 263-284, 1930.
- Coprini*
 biLindquist J. Kans. Ent. Soc. 6: 109-125, 1933.
- Copris hintoni*
 nSaylor, Can. Ent. 65: 238-239, 1933.
- Copris incertus prociduus*
 Ehrhorn, Hawaiian Ent. Soc. P. 7: 360, 1931; P. 8: 30, 1932.
 Swezey, Hawaiian Ent. Soc. P. 7: 341, 356, 1931; P. 8: 213, 1933.
 Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 427-428, 1931.
 Williams, Hawaiian Ent. Soc. P. 7: 345, 1931.
 Hawaiian Ent. Soc. P. 7: 332, 1931.
- Coptia effeminata, sauricollis*
 inDarlington, Psyche 41: 88-90, 1934.
- Coptocycla aurichalcea*
 Thone, Sci. News Letter 20: 111, 1931.
- Coptodisca negligente*
 Goldsworthy, Wis. Cranb. Grow. Assoc. R. 48: 25-26, 1934.
 Roger, Wis. St. Cranb. Grow. Assoc. R. 45: 19-20, 1931.
- Coptodisca splendoriferella* (Clem.) (Re-splendent shield bearer)*
 Britton, Conn. B. 344: 153, 1933.
- Coptotermes acinaciformis*
 Holloway, Facts about Sugar 27: 355, 1932.
- Coptotermes crassus*
 biLight, Cal. Univ. Pub. Ent. 6(5): 105-107, 1933.
- Coptotermes formosanus*
 Ehrhorn, Hawaiian Ent. Soc. P. 8: 360, 364, 371, 377, 1934-
 iEhrhorn, Kofoid, Termites and Termite Control: 299-305, 1934.
 Fullaway, Hawaiian Ent. Soc. P. 8: 7, 1932.
 Hecke, Cal. Dept. Agr. Sp. Pub. 92: 9, 1929.
 Illingworth, Hawaiian Ent. Soc. P. 7: 353, 1931.
 Light, Cal. Agr. Mo. B. 19: 454, 1930.
 Pemberton, Hawaiian Ent. Soc. P. 8: 509, 1934.
 Swezey, Hawaiian Ent. Soc. P. 7: 483, 1931.
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 379, 1931; P. 8: 383-384, '34.
- Coptotermes niger* and *Trinidad root disease*
 Strong & Shattuck, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 392, 1930.
- Coptotermes pacificus*
 niLight, Bernice P. Bishop Mus. B. 98: 84-86, 1932.
- Coquillettia granulata, nigrithorax*
 nKnight, Ent. News 41: 319-320, 1930.
- Coraia subcyanescens*
 iBlake, PUSNM 79(2): 35-36, 1932.
- Coral hairstreak, see* *Strymon titus*
- Corcyra cephalonica*
 Back & Cotton, USDA FB 1260, rev.: 14, 1930.
- Cordulegaster maculatus*
 iAaron, Nature Mag. 22: 111, 1933.
- Cordulegaster obliquus*
 Montgomery, Ind. Acad. Sci. P. 41: 452, 1932.
- Cordylobia anthrophophaga* and *Myiasis*
 Strong, Harvard Univ. Inst. Trop. Biol. Contrib. 5: 194, 1930.
- Cordylura browni, masconina*
 inCurran, Amer. Mus. Nov. 492: 11-12, 1931.
- Cordylura tricincta*
 bFrost, Ent. News 43: 43-77, 1932.
- Corethrella appendiculata*
 bHinman, Ent. News 45: 185-186, 1934.
- Corimelaena pulicaria, see* *Allocoris pulicaria*
- Corisella dispersa—Flight*
 Vansell, Ent. News, 42: 270, 1931.
- Corixa*
 Walley, Bklyn. Ent. Soc. B. 25: 49, 1930.

Corixidae

Hungerford, Pan-Pac. Ent. 7: 22-26, 1930.

Vansell, Ent. News 42: 270, 1931.

Walley, Can. Ent. 63: 238-239, 1931.

Corizoneura longirostris

Hardwicke, Ind. J. Vet. Sci. 1: 24-28, 1931.

*Corn billbugs, *see* *Calendra* spp.

*Corn blotch leaf miner, *see* *Agromyza parvicornis* Loew

Corn borer, Southwestern, *see* *Diatraea grandiosella*

Corn budworm, *see* *Diabrotica duodecimpunctata*

*Corn-ear worm, *see* *Heliothis obsoleta* F.

*Corn flea beetle, *see* *Chaetocnema pulicaria* Melsh.

†Corn insects

biBigger, Ill. St. Acad. Sci. Trans. 24: 235-240, 1931.

iBritton, Conn. Veg. Grow. Assoc. R. 17: 50-51, 1930.

Bruner & Arango, Cuba. Santiago de las Vegas, C. 73: 3-4, 1931.

bBryson, J. Ec. Ent. 27: 827-832, 1934.

iCaesar, Ont. Dept. Agr. B. 359: 40-43, 1931.

Call, Kans. Bien R. 5: 107-108, 1930.

iCartwright, S.C. R. 47: 57-58, 1934.

bClausen, USDA C. 168: 55-56, 1931.

Compton, Ill. C. 391: 18-23, 1932.

Curtiss, Iowa R. f. 1930: 29-30.

Davis, Ind. Acad. Sci. P. 39: 295, 1930.

Davis, Canner 72(14): 19-20, 1931.

biDitman & Cory, Md. B. 348: 525-543, 1933.

Dustan, Can. Dept. Agr. Ent. B. 32: 55, 1932.

iEddins, La Hacienda 25: 448, 1930.

Fletcher, J. Ec. Ent. 26: 978-982, 1933.

Fulton, N.C. R. 56: 35-36, 1933.

Grimes, Kans. Bien. R. 7: 103-105, '34.

iGrossman, Fla. R. 45: 79-80, 1931.

Hawthorn & Fletcher, P. Amer. Soc. Hort. Sci. 30: 550-553, 1933.

Larrimer, USDA FB 1714: 24-26, 1933.

Lutken, South. Cult. 91(5): 11, 1933.

MacLaren, La Hacienda 26: 190, 1931.

biMex. Agr. & Fomento. Principales Plagas: 60-67, 1930.

iMilord, Rev. de Agr. Cuba 12(4): 35-43, 1930.

Mumford, Ill. R. 42: 140, 1929; R. 43:

138-139, 1930; R. 46: 138-140, 1933.

Neiswander, Ohio B. 473, 1931, 98p.

Rodriguez, Rev. Agr. P.R. 25: 149, 154, 1930.

Smith, Ohio B. 473: 51-78, 1931.

Spencer, La. R. f. 1929-1931: 88-89.

iStoutamire, Fla. Dept. Agr. B. 54, n.s.: 15-16, 1931.

iWilkinson, Conn. Storrs Ext. B. 196: 18-19, 1933.

iWolcott, Ec. Ent. of West Indies: 245-256, 1933.

*Corn leaf aphid, *see* *Aphis maidis* Fitch

*Corn root aphid, *see* *Anuraphis maidi-radicis* Forbes

*Corn root webworm, *see* *Crambus caliginosellus* Clem.

*Corn rootworm, *see* *Diabrotica longicornis*

Corn weevils

[McAlister], South. Cult. 90(13): 15, '32.

Corozalia

nCurran, Fam. & Genera of North Amer. Diptera: 465, 1934.

Correbidia—Key

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 27, 1930.

Corrodentia

Chapman, J. N.Y. Ent. Soc. 38: 219-290, 319-402, 1930.

Cortexa escamosa, *see* *Cladosporium herbarum*

Corthylus punctatissimus (Pitted ambrosia beetle)

Felt, J. Ec. Ent. 26: 47-48, 1933.

Hamilton, Nat. Shade Tree Conf. P. 9: 62-63, 1933.

bSoraci, N.J. Dept. Agr. C. 243: 42, '34.

Twinn, Ent. Soc. Ont. R. 65: 124, 1934.

Corticaria serrata

Davis, P. Ent. Soc. Wash. 36: 269, '34

Corticeus, C. strublei

nBlaisdell, Ent. News 45: 187-191, 1934.

Corydalus cornutus (L.) (Dobson fly)* (Hellgrammite)*

iHoward, Insect Menace: 132-133, '31.

Musgrave, Ent. News 42: 202-203, '31.

Corydalus vetustus

biCarpenter, Carnegie Mus. Ann. 21: 123-124, 1932.

- Coryna**
 Ross, Can. Ent. 62: 184-189, 1930.
- Corynothrips cruentatus**
 nHood, P. Biol. Soc. Wash. 47: 62-63, 1934.
- Coryphaeschna spp.—Key**
 biByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 253-255, 1930.
 Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 19, 1932.
- Corythucha ciliata**
 Britton, Conn. B. 388: 593, 1932.
 Britton, Conn. B. 344: 168, 1933.
 Felt, J. Ec. Ent. 26: 49, 1933.
 biSoraci, N.J. Dept. Agr. C. 243: 48-49, 1934.
- Corythucha decepta**
 nDrake, Psyche 29: 100-101, 1932.
- Corythucha drakei**
 Newcomer, USDA C. 270: 40, 1933.
- Corythucha gossypii (F.) (Cotton lacebug)***
 Fenton, Can. Ent. 66: 198-199, 1934.
 bLeonard, P.R. Dept. Agr. J. 16: 75-76, 1932.
 biLeonard & Mills, P.R. Dept. Agr. J. 15: 309-324, 1931.
 MacLaren, La Hacienda 27: 184, 1932.
- Corythucha incurvata**
 Burke, Nat. Shade Tree Conf. P. 9: 52-53, 1933.
- Corythucha juglandis**
 Twinn, Ent. Soc. Ont. R. 65: 126, 1934.
- Corythucha marmorata**
 Hutson, Mich. R. 47: 216, 1934.
 iMcDaniel, Mich. Quar. B. 17(1): 23-24, 1934.
- Corythucha sagillata**
 nDrake, Psyche 39: 101-102, 1932.
- Corythucha salicata**
 biThompson & Wong, J. Ec. Ent. 26: 1090-1095, 1933.
- Corythucha ulmi**
 Felt, Nat. Shade Tree Conf. P. 8: 79, 1932.
 Felt, J. Ec. Ent. 26: 49, 1933.
- Cosmobruchus russelli**
 nBridwell, P. Ent. Soc. Wash. 33: 41-42, 1931.
- Cosmogerax, C. formica**
 nHebard, Trans. Amer. Ent. Soc. 59: 105-106, 1933.
- Cosmophila vulpicolor**
 Swezey, Hawaiian Ent. Soc. P. 8: 274, 1933.
 Williams, Hawaiian Ent. Soc. P. 8: 222, 1933.
- Cosmopolitan butterfly, see Vanessa cardui**
- Cosmopolites sordidus (Germ.) (Banana root borer)***
 Arango, Rev. de Agr. Cuba 14(1): 45, 1932.
 Bague, P.R. Com. Agr. & Labor R. f. 1929: 700, 1930.
 Catoni, P.R. Com. Agr. y Trabajo Inf. Ann. f. 1929-1930: 181.
 Colon, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1931-1932: 104.
 Garcia, P.R. Ins. R. f. 1929-1930: 37, 1931.
 Leonard, P.R. Dept. Agr. J. 15: 147-176, 1931; 16: 121, 1932.
 Leonard, P.R. Ins. R. f. 1930: 112-113, 1931.
- biMex. Agr. & Fomento. Principales Plagas: 126, 1930.**
 iRios, P.R. Ins. B. 36: 49-50, 1930.
 iRios, Rev. Agr. P.R. 26: 80-81, 1931.
 iSein, P.R. Ins. C. 103, 1934, 11p.
 biSein, P.R. Univ. J. Agr. 18: 411-416, 1934.
 Wolcott, J. Ec. Ent. 24: 139-141, 146, 1931.
 Wolcott, Can. Field-Nat. 46: 175, 1932.
- Cosmopepla bimaculata**
 biBaker, Can. J. Res. 4: 198, 1931.
- Cosmopepla conspiciaris**
 biBaker, Can. J. Res. 4: 198-200, 1931.
- Cosmopterix antillia**
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 356-357, 1931.
 inForbes, P.R. Dept. Agr. J. 15: 356-357, 1931.
- Cosmosoma—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 23, 1930.
- Cosmotoma fasciata**
 nFisher, J. Wash. Acad. Sci. 21: 23-24, 1931.
- Cosmotoma setifer**
 Linsley, Pan-Pac. Ent. 9: 132, 1933.
- Cossula magnifica (Stkr.) (Pecan carpenter worm)***

- iMoznette et al, USDA FB 1654: 46-47, 1931.
- Cotalpa (Pocalta) leonina**
nFall, J. N.Y. Ent. Soc. 40: 203-204, '32.
- Cotinis mutabilis**
biMex. Agr. & Fomento. Principales Plagas: 153, 1930.
- Cotinis nitida (L.) (Green June beetle)***
Eddy et al, Ky. B. 353: 234, 1934.
Felt, J. Ec. Ent. 26: 47, 1933.
Price, J. Ec. Ent. 27: 69-72, 1934.
iSim, USDA C. 334: 10, 1934.
- Cotinis texana**
McKenzie, J. Ec. Ent. 27: 1110, 1934.
- *Cotton aphid, *see* *Aphis gossypii* Glov.
- *Cotton blister mite, *see* *Eriophyes gossypii* Banks
- *Cotton boll weevil, *see* *Anthonomous grandis*
- Cotton bollworm moth, *see* *Heliothis obsoleta*
- Cotton cutworm, *see* *Prodenia ornithogalli*
- *Cotton flea hopper, *see* *Psallus seriatus*
- †Cotton insects
Bondy & Rainwater, S.C. R. 47: 100-102, 1934.
Brannen, Ark. B. 297: 32-34, 1934.
Burgess, Ariz. R. 44: 45, 1933.
iCalhoun, J. Ec. Ent. 26: 1125-1128, 1933.
Camp, Fla. R. f. 1930, 64-65.
bClausen, USDA C. 168: 60-61, 1931.
Coad, J. Ec. Ent. 23: 667-672, 1930.
Eddy & Clark, Assoc. South. Agr. Work, P. 31: 422, 1930.
biEwing & McGarr, J. Ec. Ent. 26: 943-953, 1933.
Fenton, Can. Ent. 66: 198-199, 1934.
iFolsom, USDA FB 1688, 1932, 29p.
Gaines, Bklyn. Ent. Soc. B. 28: 47-53, 1933.
biGaines, J. Ec. Ent. 26: 274-279, 957-971, 1933; 27: 740-743, 1934.
Grossman, Fla. R. 45: 67-68, 1931.
Grossman & Calhoun, Fla. R. f. 1932, 90-91.
Hamner, Miss. R. 45: 30-31, 1932.
Harned, Internat. Cong. Ent. 4, Trans. 2: 1036-1037, 1929.
Harned, USDA YB f. 1933, 126-132.
Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 214-215, 1930.
- biKing & Cook, USDA TB 296, 1932, 12p.
- Leonard, Rev. Agr. P.R. 25: 135-136, 163-164, 1930.
- Leonard, P.R. Ins. R. f. 1929-1930: 114, 119-120, 1931
- McDowell, Tex. B. 494: 19, 1934.
- bMcGarr, J. Ec. Ent. 26: 953, 956, 1933.
- iMcGregor, USDAFB 831 rev. 1934, 11p.
- Marlatt, USDA Ent. R. f. 1930, 34-41; R. f. 1931, 44-50; R. f. 1932, 19-22; R. f. 1933, 23-28.
- biMex. Agr. & Fomento. Principales Plagas: 139-142, 1930.
- bRainwater, J. Ec. Ent. 27: 757-758, 1934.
- Reinhard et al, Tex. R. 47: 43-48, '34.
- Rodriguez, Rev. Agr. P.R. 25: 149, 154, 1930; 26: 174, 176, 1931.
- iRodriguez, P.R. Ins. C. 102: 23-32, 1933.
- Saavedra, Rev. Agr. P.R. 26: 14, 32, 1931.
- iSanderson, Ins. Pests Farm, ed. 3: 261-280, 1931.
- Sepulveda, Rev. Agr. P.R. 26: 88, 1931.
- iStoutamire, Fla. Dept. Agr. B. 55: n.s. 16-18, 1931.
- Strong, USDA Ent. R. f. 1934: 5-6.
- Thomas, Gaines & Fletcher, Tex. R. 47: 48, 1934.
- Trent, Okla. Ext. C. 295: 53-55, 1931; Ext. C. 301: 43-44, 1932.
- Velazco, Rev. Agr. P.R. 26: 138, 145-146, 1931.
- Watts & Cartwright, S.C. R. 46: 82-83, 1933.
- West, Cotton J. 9(3): 7, 1930.
- biWolcott, Ec. Ent. of West Indies: 264-306, 1933.
- Farm & Ranch 52(9): 9, 1933.
- *Cotton lacebug, *see* *Corythucha gossypii*
- Cotton leaf miner, *see* *Bucculatrix thurberiella*
- *Cotton leaf perforator, *see* *Bucculatrix thurberiella* Busck
- *Cotton leaf worm, *see* *Alabama argillacea*
- Cotton moth, *see* *Alabama argillacea*
- Cotton seedlings—Insects
iEddy, J. Ec. Ent. 23: 704-708, 1930.
iGaines, J. Ec. Ent. 27: 740-743, 1934.

Cotton seedlings—Insects *Cont'd*

Watts, S.C. R. 44: 71-72, 1931.

iWatts, S.C. R. 45: 69-71, 1932.

*Cotton-square borer, *see* *Strymon melinus* Hbn.

*Cotton stainer, *see* *Dysdercus suturellus*

Cottonwood borer, *see* *Plectrodera scalator*

Cottonwood leaf beetle, *see* *Chrysomela scripta* F.

*Cottony-cushion scale, *see* *Icerya purchasi* Mask.

*Cottony maple scale, *see* *Pulvinaria vitis*

*Cottony peach scale, *see* *Pulvinaria amygdali* Ckll.

Cow grasshopper, *see* *Neopodis mopsis*

Cow killers, *see* *Mutillidae*

*Cowpea aphid, *see* *Aphis medicaginis*

*Cowpea curculio, *see* *Chalcodermus aeneus* Boh.

*Crab hole mosquito, *see* *Deinocerites cancer* Theob.

*Crab louse, *see* *Phthirus pubis* L.

Crabro *gracilissimus*

Davison, So. Cal. Acad. Sci. B. 30: 49, 1931.

Crambididae—Outbreak—1931

biStirrett & Arnott, Ent. Soc. Ont. R. 62: 69-75, 1932.

Crambus albellus—Flight

biArnott, Ent. Soc. Ont. R. 65: 106, '34.

Crambus caliginosellus Clem. (Corn root webworm)*

biArnott, Ent. Soc. Ont. R. 65: 102-103, 1934.

Lacroix, Conn. B. 335: 264-265, 1932.

iSanderson, Ins. Pests Farm, ed. 3: 135-137, 1931.

Crambus elegans

biArnott, Ent. Soc. Ont. R. 65: 105, '34.

Crambus girardellus

biArnott, Ent. Soc. Ont. R. 65: 104-105, 1934.

Crambus hortuellus (Hbn.) (Cranberry girdler)*

biArnott, Ent. Soc. Ont. R. 65: 104, 1934.

Beckwith, N.J. C. 314, 1934, 4p.

Goldsworthy, Wis. Cranb. Grow. Assoc. Meet. 46: 50-51, 1933.

Crambus leachellus

biArnott, Ent. Soc. Ont. R. 65: 104, 1934.

Friend, Conn. B. 315: 616, 1930.

iKeifer, Cal. Agr. Mo. B. 20: 617-618, 1931.

Crambus mutabilis

biArnott, Ent. Soc. Ont. R. 65: 105-106, 1934.

iVose, Golfdom 6(8): 26-28, 1932.

Crambus praeffectellus

biArnott, Ent. Soc. Ont. R. 65: 105, 1934.

Crambus spp.

biArnott, Ent. Soc. Ont. R. 65: 98-107, 1934.

Blauvelt, N.Y. Ext. B. 296: 40-43, '34.

Brooks, Watson & Mowry, Fla. Co-op. Ext. B. 63: 47, 1932.

Buchanan & Stevenson, Iowa R. f. 1933: 75.

iDustan, Can. Dept. Agr. Ent. B. 32: 27-28, 1932.

iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 19-20, 1934.

iHayes, Golfdom 7(4): 21-22, 1933.

Marlatt, USDA Ent. R. f. 1931: 30-31; R. f. 1932: 13.

Milord, Rev. de Agr. Cuba 12(4): 38, 1930.

Noble, USDA C. 248, 1932, 4p.

Noble, U.S. Golf Assoc. Green Sec. B. 12: 14-17, 1932.

iPettit, Mich. Ext. B. 125: 5-6, 1932.

Twinn, Ent. Soc. Ont. R. 64: 68, 1933; R. 65: 117-118, 1934.

Wallace, Ind. Dept. Conserv. R. 13: 62, 1931.

Wallace, Ind. St. Dept. Conserv. Div. Ent. R. f. 1931: 36, 1932.

Wallace et al, Ind. Dept. Conserv. R. 14: 55-56, 1932.

iWatson, Fla. B. 232: 56-57, 1931.

Crambus teterrellus

biAinslie, USDA TB 173, 1930, 25p.

biArnott, Ent. Soc. Ont. R. 65: 103-104, 1934.

Blauvelt, N.Y. Ext. B. 296: 40-43, '34.

bNorth & Thompson, J. Ec. Ent. 26:

1117-1125, 1933.

iU.S. Golf Assoc. Green Sec. B. 10: 115-116, 1930.

Crambus trisectus

biArnott, Ent. Soc. Ont. R. 65: 101-102, 1934.

Chadwick, Flor. Rev. 70(1805): 66, '32.

Decker, Iowa R. f. 1934: 99.

- Friend, Conn. B. 315: 616, 1930.
 Mumford, Ill. R. 46: 161-162, 1933.
 Noble, U.S. Golf Assoc. Green Sec. B. 12: 14-17, 1932.
 iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 2(9), 1930, 4p.
Crambus vulgivagellus Clem. (*Vagabond crambus*)*
 biArnott, Ent. Soc. Ont. R. 65: 103, 1934.
Cramptonomyia, C. spenceri
 inAlexander, Bklyn. Ent. Soc. B. 26: 7-11, 1931.
Cranberry black bug, *see* **Plagiognathus repetitus**
Cranberry blossom worm, *see* **Eniglaea apiata**
Cranberry fireworm, *see* **Rhopobota naevana**
 ***Cranberry fruit worm**, *see* **Mineola vacinii** Riley
 ***Cranberry girdler**, *see* **Crambus hortuellus** Hbn.
Cranberry insects
 Beckwith, N.J. R. 51: 170-173, 1930.
 Beckwith, Amer. Cranb. Grow. Assoc. P. 62: 10-11, 1932; P. 64: 9-12, 1934.
 Chambers, Wis. St. Cranb. Assoc. Ann. Meet. 44: 28-31, 1930.
 iChambers, Wis. Dept. Agr. B. 141: 106-109, 1933.
 Crowley, Wash. B. 305: 62, 1934.
 Franklin, Mass. B. 271: 249-250, 1931; B. 280: 208, 1932.
 Gilliatt, N.S. Fr. Grow. Assoc. R. 71: 52-55, 1934.
 Goldsworthy, Wis. Hort. 24(1): 8, 1933.
 iMay, Mass. Dept. Agr. Dept. Pub. 133 (1931), 10p.
 Rogers, Wis. St. Cranb. Grow. Assoc. Meet. 45: 18-22, 1931.
Cranberry insects—Flooding
 Bain, Goldsworthy & Rogers, Wis. Hort. 23: 35, 1932.
 Beckwith, Amer. Cranb. Grow. Assoc. P. 63: 19, 1932.
Cranberry root grub, *see* **Amphicoma vulpina**
 ***Cranberry rootworm**, *see* **Rhabdopterus picipes** Oliv.
 ***Cranberry weevil**, *see* **Anthonomus musculus** Say
Craneflies, *see* **Tipulidae**
- Cranefly of mint**, *see* **Tipula mingwe**
Crangonyx vitreus
 Giovannoli, Bailey Cave Life of Ky.: 238, 1933.
Craponius inaequalis (Say) (*Grape curculio*)*
 Lord, Fla. Dept. Agr. B. n.s. 63: 17, 1932.
 ***Crazy ant**, *see* **Prenolepis longicornis** Latr.
Cregya oculatus
 Knull, Ent. News 43: 43, 1932.
Cremastocheilus nitens
 Smyth, J. Kans. Ent. Soc. 7: 115-116, 1934.
Cremastogaster (Acrocoelia) ashmeadi matura
 nWheeler, J. N.Y. Ent. Soc. 40: 8-9, '32.
Cremastogaster (Acrocoelia) creightoni
 nWheeler, Psyche 40: 83-86, 1933.
Cremastogaster (Acrocoelia) kennedyi
 nWheeler, Psyche 37: 55-60, 1930.
Cremastogaster lineolata
 Bentley & Rogers, Tenn. Pl. Dis. Control. B. 40: 13, 1931.
Cremastogaster (Acrocoelia) lineolata cedrosensis
 nWheeler, Pan-Pac. Ent. 10: 136-137, 1934.
Cremastogaster lineolata cerasi
 iRau, Acad. Sci. St. Louis Trans. 28: 209-211, 1934.
Cremastogaster (Orthocrema) parabiotica
 Wheeler & Darlington, Psyche 37: 109-110, 1930.
Cremastogaster sp.
 Davis et al, USDA TB 388: 46, 48, 1933.
Cremastus (Zaleptopygus) brunneipennis
 nWalley, Can. Ent. 65: 253-254, 1933.
Cremastus chinensis
 Cushman, P. Ent. Soc. Wash. 35: 75, 1933.
Cremastus flavoorbitalis
 biBradley & Burgess, USDA TB 441: 1934, 15p.
 Cartwright, USDA C. 289: 3-13, 1933.
 bClark, USDA TB 455: 21-22, 1934.
 Cushman, P. Ent. Soc. Wash. 35: 73-74, 1933.
 Wishart & Thomas, Ent. Soc. Ont. R. 63: 40-41, 1932.

Cremastus hymeniae

Rosa, Hawaiian Ent. Soc. P. 8: 226, 1933.

Swezey, Hawaiian Ent. Soc. P. 8: 2, 1932; 367-368, 1934.

iVandenberg, Guam R. f. 1930/1932: 22, 1933.

Cremastus interruptor

bDowden, Ann. Ent. Soc. Amer. 27: 600, 1934.

Slate, Conn. B. 347: 276, 1933.

Cremastus japonicus

Cushman, P. Ent. Soc. Wash. 35: 74-75, 1933.

Cremastus minor

Daniel et al., N.Y. (Gen.) B. 635: 16, 1934.

Merritt, Mich. Quart. B. 15: 225, 1933.

Merritt, Midwest Fruitman 7(2/3): 8, 1933.

Cremersia minor

nBrues, Psyche 39: 137-138, 1932.

Cremona, C. cotoneastri

inBusck, P. Ent. Soc. Wash. 36: 82-85, 1934.

Creontiades castaneum

nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 27-28, 1933.

Creontiades debilis

Folsom, USDA FB 1688: 8, 1932.

Cretiades willowsi

nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 28, 1933.

Creophilus villosus

Abbott, Ent. News 45: 91-93, 1934.

Crepidodera rufipes, see Derocrepis rufipes**Crickets**

Allard, Sci. News Letter 20: 24, 1931.

iHenderson, Utah C. 96, 1931, 38p.

iLampman, Nature Mag. 20: 68, 1932.

iThone, Sci., News Letter 20: 303, 1931.

iYoung, Nature Mag. 16(1): 55, 1930.

Crickets—Photography

iBemis & Day, Nature Mag. 22(3): 98, 1933.

Crickets—Sonification

iLutz, Sci. Amer. 143(4): 270-273, 1931.

Sweet, Cath. World 131: 716, 1930.

Crickets as food

Henderson, Utah C. 96: 13-15, 1931.

Crickets in factories

iStiner, Food Ind. 6: 482, 1934.

Crimisodes, C. undulatum

inHebard, Trans. Amer. Ent. Soc. 58: 220-222, 1932.

†Cricoceras asparagi (L.) (Asparagus beetle)*

Beal, N.Y. (C) Ext. B. 223: 22, 1932.

iBritton, Conn. B. 344: 80, 1933.

iCaesar, Ont. Dept. Agr. B. 359: 19-21, 1931.

iCompton, Ill. C. 391: 37-38, 1932.

Crosby & Chupp, N.Y. (C) Ext. B. 206 rev.: 88-89, 1933; B. 278: 70-71, '34.

Crothwait, Peninsula Hort. Soc. Trans. 46: 17-18, 1932.

bDavidson, Ohio J. Sci. 31: 396-405, '31.

Davis, Ind. Ext. B. 186: 9-10, 1932.

iDrake & Harris, Iowa C. 134: 4-5, '32.

iDustan, Can. Dept. Agr. Ent. B. 32: 31, 1932.

iGilbert & Popenoe, USDA FB 1371 rev.: 8, 1934.

iHerrick, N.Y. Dept. Agr. & Markets B. 240: 65-66, 1930.

Mahoney, Mich. Ext. B. 90: 4, 1932.

Ryan, Cal. Mo. B. 19: 728, 1930.

Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 22.

Sanderson, Ins. Pests Farm, ed. 3: 252-253, 1931.

Thompson, USDA FB 1646: 22, 1930.

Webster, Wash. Ext. B. 186: 2, 1934.

Cricoceras duodecimpunctata (L.) (Spotted asparagus beetle)*

Beal, N.Y. (C) Ext. B. 223: 23, 1932.

Britton, Conn. B. 344: 80, 1933.

iCaesar, Ont. Dept. Agr. B. 359: 21-22, 1931.

Compton, Ill. C. 391: 38-39, 1932.

Crosby & Chupp, N.Y. (C) Ext. B. 206 rev.: 88-89, 1933; B. 278: 70-71, '34.

Drake & Harris, Iowa C. 134: 8-10, '32.

iDustan, Can. Dept. Agr. Ent. B. 32: 32, 1932.

Harris, J. Ec. Ent. 24: 1311, 1931.

Crocidema, C. spp.

nVan Dyke, Pan-Pac. Ent. 10: 185-190, 1934.

Crociosema lantanae

Swezey, Hawaiian Ent. Soc. P. 8: 273-274, 1933.

Crocisa chapini

nCockerell, Amer. Mus. Nov. 547: 5, 1932.

Croesomyrmex spp.

bnWheeler, B. Mus. Comp. Zool. 72(1):
21-27, 1931.

Croesus varus

Buckle, Can. Ent. 62: 21-22, 1930.

Cromerus bakeri, invarius

nDrake, P. Ent. Soc. Wash. 32: 166-167,
1930.

Crop insects—Field

Buckell, Ent. Soc. Ont. R. 62: 34, 1932.

Caesar & Ross, Ent. Soc. Ont. R. 60:
19-21, 1930; R. 63: 17-18, 1932.

Davis, Purdue Univ. B. 32(7): 41-45,
1932.

Doane, Common Pests: 228-252, 1931.

bFolsom, J. Ec. Ent. 26: 935, 1933.

Frison, Ill. Dept. Reg. & Ed. R. 14: 27-
28, 1931.

Fullaway, Pac. Sci. Cong. 4, P. 4: 593-
594, 1930.

Gilliatt, Ent. Soc. Ont. R. 60: 9-10,
1930; R. 62: 16-17, 1932.

Gorham et al, Ent. Soc. Ont. R. 62:
17-18, 1932.

iHeaton, Purdue Agr. 26: 76, 1932.

Hooker, USDA OES R. on Exp. Sta.
f. 1929: 42-44, 1930; f. 1931: 49, '32.

King & Arnason, Ent. Soc. Ont. R. 62:
27-28, 1932.

Mackie, Cal. Agr. Mo. B. 21: 478-480,
1932.

Maheux & Petch, Ent. Soc. Ont. R. 60:
15-17, 1930.

Mitchener, Ent. Soc. Ont. R. 62: 24,
1932.

Moulton, Cal. Agr. Mo. B. 20: 750, '32.

Mumford, Missouri C. 302: 41, 1933.

iPettit, Mich. B. 183, rev. Apr. 1933,
70p.

Ross & Caesar, Ent. Soc. Ont. R. 62:
10-11, 1932.

Twinn, Ent. Soc. Ont. R. 64: 64-69,
1933; 65: 113-118, 1934.

iVigor, Sask. Dept. Agr. R. 24: 18-20,
1929.

Weir, Can. Min. Agr. R. f. 1932: 166-
168.

Can. Dept. Agr. Ent. Br. News Letter
14(1/2): 1-3, 1933.

Crop insects—Field—Cultural practices

Gorham, Ent. Soc. Ont. R. 65: 36-40,
1934.

Seamans, Ent. Soc. Ont. R. 65: 22-28,
1934.

Crosbicus dasycnemus

Jacot, Conn. B. 349: 445, 1933.

Cross-line skipper, *see* *Polites manataaqua*

Crossotarsus externedentatus

Swezey, Hawaiian Ent. Soc. P. 8: 364-
365, 1934.

Crypt ladybeetle, *see* *Cryptolaemus mon-
trouzieri*

Crypticerya rosae

bHughes-Schrader, Ann. Ent. Soc.
Amer. 23: 375-380, 1930.

biHughes-Schrader, J. Morph. 50: 491-
492, 1930.

Crypticus obsoletus

High, J. Ec. Ent. 26: 911-912, 1933.

Hyslop, J. Ec. Ent. 27: 561-562, 1934.

Cryptoblates gnidiella

Clausen & Berry, USDA TB 320: 43,
1932.

Cryptocephalus apicedens

nFall, Psyche, 39: 22-23, 1932.

**Cryptocephalus binominis rufibasis, co-
waniae**

nSchaeffer, J. N.Y. Ent. Soc. 41: 322-
323, 462-463, 1933.

Cryptocephalus cuneatus

nFall, Psyche, 39: 24-25, 1932.

Cryptocephalus cupressi, egregius

nSchaeffer, J. N.Y. Ent. Soc. 41: 324,
459-460, 1933.

Cryptocephalus merus

nFall, Psyche, 39: 23-24, 1932.

**Cryptocephalus multisignatus, notatus sel-
latus**

nSchaeffer, J. N.Y. Ent. Soc. 41: 322,
323, 1933.

Cryptocephalus ochraceus, pallidicinctus

nFall, Psyche, 39: 21, 25, 1932.

Cryptocephalus simulans conjungens

nSchaeffer, J. N.Y. Ent. Soc. 41: 460,
1933.

Cryptocephalus simulans eluticollis

nSchaeffer, J. N.Y. Ent. Soc. 41: 460-
461, 1933.

Cryptocephalus snowi, texanus

nSchaeffer, J. N.Y. Ent. Soc. 41: 323-
324, 461, 1933.

Cryptocercus punctulatus

biCleveland et al., Amer. Acad. Arts &
Sci. Mem. 17(2): 185-342, 1934.

Cryptochaetum iceryae

- iEssig, Tex. Cit. 7(5): 15, 27, 1930.
 Essig, Hist. of Ent. 123: 318-322, 1931.
 bSmith, Ann. Ent. Soc. Amer. 26: 522,
 1933.

Hawaiian Ent. Soc. P. 7: 334, 1931.

Cryptocheilus arizonicus, attenuatus

nBanks, Psyche 40: 7-9, 1933.

Cryptococcus fagi (Baer.) (Beech scale)*

- Balch, For. Chron. 7: 67, 1931.
 Balch, Pulp and Paper Mag. of Can.
 35: 679, 1934.

Beattie, J. Ec. Ent. 26: 624, 1933.

biBrown, J. Ec. Ent. 27: 327-334, 1934.

Collins, J. Ec. Ent. 25: 144-145, 1932.

bEhrlich, Arnold Arboretum J. 13: 75-
 80, 1932.

biEhrlich, Can. J. Res. 10, sp. no. June
 1934: 593-692.

Felt, J. Ec. Ent. 26: 510-511, 1933.

Hayden, Hort. n.s. 10: 127, 1932.

Hyslop, J. Ec. Ent. 27: 563-564, 1934.

iPeirson, Field Book of Destruct. For.
 Ins. ed. 2: 22, 1932.

Swaine, For. Chron. 9(4): 14-15, 1933.

Twinn, Ent. Soc. Ont. R. 65: 126, '34.

Violette, Maine For. Com. R. 19: 61, '32.

Cryptognatha sp.

Clausen & Berry, USDA TB 320: 36-
 40, 1932.

iOtero, Rev. de Agr. Cuba 15(5): 48, 50,
 1934.

Cryptolabis luteicosta

nAlexander, Ann. Ent. Soc. Amer. 27:
 71, 1934.

Cryptolaemus montrouzieri

Baird, Ent. Soc. Ont. R. 65: 73, 1934.

iBasinger, Cit. Leaves 11(8): 8, 31, 1931.
 Berger, Fla. St. Hort. Soc. P. 45: 1, 132,
 1932.

Bryan, Hawaiian Ent. Soc. P. 8: 3, '32.

Cole, J. Ec. Ent. 26: 855-864, 1933.

iCrawford, Hawaii Ext. B. 9: 14, 1931.

iEssig, Hist. of Ent.: 303-309, 1931.

Howard, Hist. Appl'd Ent.: 242, 1930.

iOtero, Rev. de Agr. Cuba 15(5): 51, '34.

biPratt, Swain & Eldred, J. Ec. Ent. 26:
 1033-1041, 1933.

Ryan, Los Angeles Co. Com. Agr. R. f.
 1932: 15.

bSmith, Ann. Ent. Soc. Amer. 26: 522-
 523, 1933.

Smith & Armitage, Cal. B. 509: 18-20,
 1931.

iSmith & Armitage, La Hacienda 27:
 376-378, 1932.

Smith & Compere, J. Ec. Ent. 24: 942-
 945, 1931.

Thompson, Fla. R. 45: 71, 1931.

Watson & Berger, Fla. Ext. B. 67: 41-
 42, 1932.

Watson & Thompson, Fla. R. f. 1932:
 70-71.

Whitcomb, Mass. B. 305: 35-36, 1934.

biWilliams, Handb. Insects . . . Hawai-
 ian Sugar Cane Fields: 184-185, '31.

Ziegler, Fla. Grow. 39(11): 22, 1931.

Cryptolaemus spp.

Davis, Flor. Rev. 70(1801): 25, 1932.

Ryan, Cal. Agr. Mo. B. 19: 523-524,
 1930.

Smith & Armitage, Cal. B. 509: 28-
 42, 1931.

Thomson, Cit. Ind. 12(5): 5, 28-29, 32,
 1931.

Volz, Flor. Exch. 80(25): 30, 1932.

Cryptolestes ferrugineus

List, Col. R. 45: 43-44, 1932.

Cryptolestes pusillus, see Laemophloeus minutus.**Cryptomeigenia aurifacies**

Holloway, Facts about Sugar 26: 445-
 446, 1931.

iWolcott, Ec. Ent. of W. In.: 117-118,
 1933.

Cryptopleurum unicolor

Blackwelder, Pan-Pac. Ent. 8: 29, 1931.

Cryptorhynchus cubae

Watson, Fla. Ent. 18: 23, 1934.

Cryptorhynchus lapathi (L.) (Poplar and willow borer)*

Chamberlin, Pan-Pac. Ent. 8: 90, 1931.

iChambers & Thompson, Wis. Dept.
 Agr. B. 123: 47-49, 1931; B. 145:
 52-53, 1933.

Davis, Ind. Ext. B. 168: 22-23, 1930.

Hamilton, Nat. Shade Tree Conf. P. 9:
 66-67, 1933; P. 10: 32, 1934.

McDaniel, Mich. Sp. B. 238: 27-30, '33.

iPettit, Mich. R. 46: 231, 1933.

biSoraci, N.J. Dept. Agr. C. 243: 35-36,
 1934.

Cryptorhynchus mangiferae

MacLaren, La Hacienda 27: 358, 1932.

- Swezey, Hawaiian Ent. Soc. P. 7: 385, 1931; P. 8: 12, 219, 1932.
- Cryptorhynchus parochus**
Knull, Ent. News 45: 211, 1934.
- Cryptoribatula, C. taishanensis**
in Jacot, Ann. Ent. Soc. Amer. 27: 465-467, 1934.
- Cryptoripersia leucocystis**
in Bueker, Amer. Mus. Nov. 453: 1-3, '31.
- Cryptotermes brevis**
iBrown, Engin. News-Rec. 111: 221-224, 1933.
- Cryptotermes piceatus**
Bryan, Hawaiian Ent. Soc. P. 8: 219, 1933.
iEhrhorn, Kofoid, Termites and Termite Control: 296-299, 1934.
Pemberton, Hawaiian Ent. Soc. P. 8: 509, 1934.
- Cryptotermes sp.**
Light, Pan-Pac. Ent. 6: 180, 1930.
- Cryptotettix imerina**
in Rehn, P. Acad. Nat. Sci. Phila. 81: 487-489, 1929.
- Crypturgus corrugatus**
Knull, Ent. News 45: 211, 1934.
- Cryptopeltis geniculata**
Hyslop, J. Ec. Ent. 27: 564, 1934.
- Cryptopeltis varians**
Rosewall, J. Ec. Ent. 23: 464, 1930.
- Ctenocephalides**
nStiles, U.S. Pub. Health R. 45: 1309-1310, 1930.
- Ctenocephalides canis (Curt.) (Dog flea)***
Carnes, U.S. Pub. Health R. 46: 2558-2562, 1931.
Davis, Ind. Acad. Sci. P. 39: 302, 1930.
Doane, Common Pests: 75, 1931.
iEssig, Hist. of Ent.: 225-228, 1931.
iHall, USDA C. 338, rev.: 15-17, 1934.
Hanson, Black Fox Mag. 16(4): 10, '32.
Headlee, N.J. C. 329, 1934, 4p.
iHerrick & Griswold, N.Y. (C.) Ext. B. 202, rev.: 45-47, 1934.
bHoskins, J. Parasit. 20: 299-303, 1934.
Marcovitch, Tenn. B. 147: 13-14, 1933.
ibMatheson, Med. Ent.: 410-413, 423-424, 1932.
Schwartz & Shook, USDA FB 1568, rev.: 10, 1931.
Wallace, Ind. Dept. Conserv. R. 11: 60, 1929.
- Wallace et al, Ind. Dept. Conserv. R. 14: 58, 1932.
- Ctenocephalides felis (Bouché) (Cat flea)***
iEskey, U.S. Pub. Health R. 47: 2197-2200, 1932.
Headlee, N.J. C. 329, 1934, 4p.
Herrick & Griswold, N.Y. (C.) Ext. B. 202, rev.: 45-47, 1934.
- ibMatheson, Med. Ent.: 423-424, 1932.
- iParks & Jones, Ohio Ext. B. 97, rev.: 23-25, 29-31, 1933.
- Pemberton, Hawaiian Ent. Soc. P. 8: 509-510, 1934.
- Schwartz & Shook, USDA FB 1568, rev.: 10, 1931.
- Twinn, Ent. Soc. Ont. R. 65: 127, 1934.
- Wallace et al, Ind. Dept. Conserv. R. 14: 58, 1932.
- Ctenocephalides spp.**
Calder, J. Kans. Ent. Soc. 4: 79-83, '31.
- Ctenocephalus, see Ctenocephalides**
- Ctenoneurus parallelus**
in Van Duzee, Bernice P. Bishop Mus. B. 98: 178-179, 1932.
- Ctenothrips frosti**
Watson, Fla. Ent. 16: 61-62, 1933.
- Ctenotrachelus—Key, spp.**
nBarber, Ent. Amer. 10, n.s.: 183-201, '30.
- Ctenuchidia—Key**
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 41-42, 1930.
- Ctenuchidia virgo virginalis**
nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 42, 1930.
- *Cuban cockroach, see Panchlora cubensis**
- Cubaris aguayoi, hendersoni**
in Boone, BAMNH 66: 593-597, 1934.
- Cubaris ramsdeni, sonchezi**
in Boone, BAMNH 66: 589-593, 1934.
- Cubocricus maximus**
in Loomis, B. Mus. Comp. Zool. 75: 358-359, 1933.
- Cuckoo-bees, see Psithyrus spp.**
- Cuckoo-bird wasp, see Chalybion cyaneum**
- Cucujidae—Wing venation**
biWilson, Ann. Ent. Soc. Amer. 23: 305-358, 1930.
- Cucujus clavipes subnitens**
Schaeffer, Bklyn. Ent. Soc. B. 26: 175, 1931.

Cucullia convexipennis (Aster shark)

Gibson, Can. Dept. Agr. B. n.s. 99,
rev.: 18-19, 1934.

Cucumber insects

Brooks & McDowell, Tex. C. 70: 12,
1934.

Dietz, Ohio Veg. Grow. Assoc. P. 15:
170-176, 1930.

iGilbert & Popenoe, USDA FB 1371,
rev.: 24-25, 1934.

Hedrick, N.Y. (Gen.) R. 49: 71, 1930.

iPierstorff & Parks, Ohio Pl. Dis. & Ins.
Notes 1(5): 1-3, 1930.

Sein, J. Ec. Ent. 24: 762, 1931.

iWilkinson, Conn. (Storrs) Ext. B. 196:
20-21, 1933.

Cuernavaca, C. mexicana

inBaker, Mex. Univ. Nac. Inst. Biol.
Anal. 5: 210-211, 1934.

Culex antillum-magnorum

bGerry, Ann. Ent. Soc. Amer. 25: 44-45,
1932.

Culex apicalis

bGrant, Newman & Wood, U.S. Pub.
Health R. 47: 1239-1247, 1932.

Mail, Mont. B. 288: 43-44, 1934.

Stearns et al, Del. B. 181: 81, 1933.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 21, 1931.

Culex bahamensis

bGerry, Ann. Ent. Soc. Amer. 25: 46-
47, 1932.

Culex fatigans

biDavis, Ann. Ent. Soc. Amer. 26: 491-
495, 1933.

bMatheson, Med. Ent.: 3, 1932.

Culex (Upsiloporpæ) haynei

inKomp & Curry, Psyche 39: 82-84, '32.

Culex inhibitor

bGerry, Ann. Ent. Soc. Amer. 25: 44,
1932.

Culex nigriceps—Tahiti

Bryan, Hawaiian Ent. Soc. P. 8: 29,
1932.

Culex nigripalpus

iGerry, Ann. Ent. Soc. Amer. 25: 46,
1932.

Culex peccator

Stearns et al, Del. B. 181: 85, 1933.

Culex pervigilans—New Zealand

Drummond, Mid-Pac. Mag. 47: 15-17,
1934.

Culex pipiens (Northern house mosquito)*

Baroody, Elisha Mitchell Sci. Soc. J
48: 125-129, 1932.

iBishopp, Cory & Stone, P. Ent. Soc.
Wash. 35: 4, 1933.

Bishopp, N.J. Mos. Exterm. Assoc. P.
20: 78, 1933.

Bishopp & Smith, N.J. Mos. Exterm.
Assoc. P. 21: 45, 1934.

iBritton, Mos. Prob. of Conn.: 5-6, '31.

Dunn, Amer. J. Pharm. 104: 681, 1932.

Fisher, Nassau Co. Exterm. Comm.
R. f. 1934: 15-16.

Ginsburg, N.J. Dept. Ent. R. f. 1929:
131, 1930.

iGreeves-Carpenter, Nature Mag. 16(1):
31-32, 1930.

Headlee, N.J. Mos. Exterm. Assoc. P.
18: 47-50, 1931.

iHerrick & Griswold, N.Y. (C.) Ext. B.
202 rev.: 11-12, 1934.

bHuff, Amer. J. Hyg. 12: 424-441, 1930.

biHuff, J. Prevent. Med. 5: 249-259,
1931

Johnson, Bost. Soc. Nat. Hist. B. 55:
19, 1930.

Kligler & Aschner, Soc. Exp. Biol. &
Med. P. 28: 463-465, 1931.

Krysto, Sci. Amer. 142: 271, 1930.

McDaniel, Mich. C. B. 144: 18-19, '32.

biMatheson, Mos. of North Amer.: 29-
32, 1929.

biMatheson, Med. Ent.: 215-219, 1932.

Miller, N.J. R. 50: 140-142, 1929.

biO'Kane et al., N.H. TB 58: 14-24,
1934.

iParks & Jones, Ohio Ext. B. 97 rev.:
25-26, 1933.

Riley & Johannsen, Med. Ent.: 212-
214, 1932.

iStearns et al, Del. B. 181: 82-83, 1933.

Tulloch, Psyche 38: 38, 1931.

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 21, 1931.

iWilliams, Va. Health B. 26(11): 5-6,
1934.

Culex punctipennis, see *Anopheles punctipennis***Culex putumayensis**

inMatheson, P. Ent. Soc. Wash. 36: 121-
122, 1934.

- Culex quinquefasciatus** (Southern house mosquito)*
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 40-41, 1934.
 Bradley, Fico News 1(9): 3-4, 1933.
 Craig, Science n.s. 75: 561, 1932.
 Dampf, Science n.s. 77: 21, 1933.
 biGerry, Ann. Ent. Soc. Amer. 25: 45, 1932.
 Hayes, U.S. Nav. Med. B. 28: 206-214, 1930.
 Hinman, Amer. J. Trop. Med. 11: 462-463, 1931.
 Hinman, Ann. Ent. Soc. Amer. 25: 621-623, 1932.
 Hinman, Science n.s. 76: 107, 1932.
 biHuff, J. Prevent. Med. 5: 249-259, '31.
 Shannon, P. Ent. Soc. Wash. 33: 20-21, 1931.
 Siler, Panama Canal Health Dept. R. f. 1932: 41-42, 1933.
 Simmons, Amer. J. Trop. Med. 11: 82, 1931.
- Culex restuans**
 Headlee, N.J. Mos. Exterm. Assoc. P. 18: 50-51, 1931.
- Culex salinarius**
 Headlee, N.J. Mos. Exterm. Assoc. P. 18: 46-47, 1931.
 Stearns et al, Del. B. 181, 83, 1933.
- Culex spp.**
 biMatheson, Mos. of North Amer.: 159-177, 1929.
 Feng, Soc. Exp. Biol. & Med. P. 32: 494-496, 1934.
- Culex taeniopus**
 Matheson, P. Ent. Soc. Wash. 36: 120, 1934.
- Culex tarsalis**
 Mail, Mont. B. 288: 44-45, 1934.
- Culex territans**
 Mail, Mont. B. 288: 45, 1934.
 Stearns, MacCreary & Newhouse, Del. B. 181: 83, 1933.
 Twinn, N.J. Mos. Exterm. Assoc. P. 18: 21, 1931.
- Culex vomerifer**
 inKomp, Psyche 39: 79-82, 1932.
- Culicidae** (Mosquitoes)
 bCampbell et al., J. Ec. Ent. 27: 1176-1185, 1934.
 iCory et al., Md. Ext. B. 73, 1934, 31p.
- iMcDaniel, Mich. C. B. 144: 16-18, '32.
 Mann, N.Y. (C.) R. 43, pt. 2: 44, 1931.
 biMatheson, Mos. of North Amer.: 82-92, 1929.
 Matheson, Bklyn. Ent. Soc. B. 25: 291-294, 1930.
 Matheson, N.Y. (C.) R. 44, pt. 2: 53, 1931.
 biMatheson, Med. Ent.: 198-246, 1932.
 iRiley & Johannsen, Med. Ent.: 211-224, 1932.
 Sanderson, Ins. Pests Farm. ed. 3: 535-540, 1931.
 biShannon, P. Ent. Soc. Wash. 33: 125-164, 1931.
 Van Derwerker, Union Co. Mos. Exterm. Comm. R. f. 1931, 25p.
- Culicidae—Food of**
 bHinman, Amer. J. Hyg. 12: 238-270, 1930.
- Culicini**
 biMatheson, Mos. of North Amer.: 93-207, 1929.
- Culicoides biguttatus**
 biMetcalfe & Sanderson, N.Y. St. Mus. C. 5: 9-13, 1931.
- Culicoides canithorax**
 biDove, Hall & Hull, Ann. Ent. Soc. Amer. 25: 516-518, 1932.
- Culicoides dovei**
 Dove & Hall, J. Parasit. 20: 337, 1934.
 biDove, Hall & Hull, Ann. Ent. Soc. Amer. 25: 516-518, 1932.
 inHall, P. Ent. Soc. Wash. 34: 88-89, '32.
 Hull, et al, J. Parasit. 19: 170, 1932.
 iHull, Dove & Prince, J. Parasit. 20: 162-172, 1933.
- Culicoides furens**
 Hall, P. Ent. Soc. Wash. 34: 88-89, '32.
 bHinman, Amer. J. Hyg. 15: 775-776, 1932.
- Culicoides guttipennis**
 bHinman, Amer. J. Hyg. 15: 774-775, 1932.
- Culicoides mississippiensis**
 bHinman, Amer. J. Hyg. 15: 773-774, '32.
- Culicoides obsoletus**
 Twinn, Can. Ent. 63: 248, 1931.
- Culicoides spp.** (Sand flies)
 biDove, Hall & Hull, Ann. Ent. Soc. Amer. 25: 505-527, 1932.

Culicoides spp. (Sand flies) Cont'd

bHinman, Amer. J. Hyg. 15: 773-776, 1932.

Marlatt, USDA Ent. R. f. 1931: 74-75;

R. f. 1932: 32; R. f. 1933: 40-41.

J. Ec. Ent. 25: 946, 1932.

Science n.s. 71(1829 sup.): xii, 1930.

Culicoides variipennis

Whitehead, Okla. R. f. 1932/34: 264-268.

Curculio auriger

Marlatt, USDA Ent. R. f. 1931: 16; R. f. 1932: 5.

Porter, North. Nut Grow. Assoc. R. 23: 77, 1932.

Curculio caryae (Pecan weevil)*

bBissell, J. Ec. Ent. 24: 861-866, 1931; 26: 176, 1933; 27: 1128-1130, 1934.

Burkett, Tex. Dept. Agr. B. 111: 205-206, 1932.

Harned, Miss. R. 42: 14, 1929.

Kislanko, Nat. Pecan Grow. Assoc. P. 29: 51, 1930.

McAtee, USDA Off. Rec. 9(36): 8, '30.

Marlatt, USDA Ent. R. f. 1931: 15; R. f. 1932: 5.

iMoznette et al., USDA FB 1654: 13-17, 1931.

Porter, North. Nut Grow. Assoc. R. 23: 77, 1932.

Stuckey, Ga. R. 46: 39, 1934.

Swingle, Ala. R. 41: 32, 1931; R. 42: 49, 1931; R. 43: 23, 1932.

Swingle, Nat. Pecan Grow. Assoc. P. 32: 15-16, 1933.

iSwingle, Ala. Leaf. 4, 1934, 4p.

Swingle & Seal, J. Ec. Ent. 24: 917, '31.

Swingle & Seal, Ala. Poly. R. 44: 29, '33.

Curculio proboscideus (Large chestnut weevil)*

Marlatt, USDA Ent. R. f. 1931: 16; R. f. 1932: 5.

Porter, North. Nut Grow. Assoc. R. 23: 77, 1932.

Curculio rectus (Chestnut weevil)*

Marlatt, USDA Ent. R. f. 1930: 11.

Curculio spp.

Brooks & McDowell, Tex. C. 70: 20-21, 1934.

Burkett, Tex. Dept. Agr. B. 111: 210, '32.

Coulson & Godbout, Que. Pom. & Fr. Grow. Soc. R. 36: 95-96, 1929.

Eddy, Kent. Hort. 7(23): 5-6, 1931.

Eddy et al., Ky. B. 353: 222-224, 1934.

Flint, Ill. St. Hort. Soc. Trans. 64: 262, 1930.

Rawls, Ky. Hort. Soc. Trans. 75: 52-57, 1930.

Rollins, Conn. (Storrs) Ext. B. 163: 7, 1932.

Snapp, Md. Agr. Soc. R. 14: 187-206, 1930.

Curculio strictus

Brooks, W.Va. Acad. Sci. P. 4: 62-65, 1930.

Curculio uniformis

Thompson, Oreg. St. Hort. Soc. R. 22: 117, 1930.

Curculionidae

biBarrett, Cal. Univ. Ent. Pub. 5(5): 89-104, 1930.

Keifer, Pan-Pac. Ent. 8: 182, 1932.

Simonds, J. Ent. & Zool. 23: 61-63, '31.

Curinus coeruleus

Fullaway, Hawaiian Ent. Soc. P. 8: 6, 1932.

*Curled rose sawfly, *see* *Emphytus cinctipes*

Curlew bug, *see* *Calendra callosus*

*Currant aphid, *see* *Capitophorus ribis*

*Currant borer, *see* *Synanthedon tipuliformis*

*Currant fruitfly, *see* *Epochra canadensis*

Currant insects

Darrow & Detwiler, USDA FB 1398 rev.: 11-17, 1930.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 147-149, 1930.

McWhorter, Better Fruit 26(1): 11, '31.

iQuaintance, USDA FB 1398 rev.: 11-17, 1934.

Quaintance & Siegler, USDA FB 1666: 89-90, 1931.

iSanderson, Ins. Pests Farm ed. 3: 439-446, 1931.

biWalden, Conn. B. 349: 416-427, 1933.

*Currant spanworm, *see* *Itame ribearia*

*Currant stem girdler, *see* *Janus integer*

Curtonotus imperfectus

nBrown, Can. Ent. 62: 232-234, 1930.

Cuterebra baeri

Dunn, Psyche 41: 176, 1934.

Cuterebra cuculi

iSchwartz & Shook, USDA FB 1568 rev.: 10, 1931.

Cuterebra (Bogeria) fontinella

Johnson, Psyche 37: 283-284, 1930.

Cuterebra princeps

Vorhies & Taylor, Ariz. TB 49: 549, 1933.

Cuterebra sp.

biLeonard, Kans. Acad. Sci. Trans. 36: 270-274, 1933.

Cuterebra tenebrosa

Painter, Fla. Ent. 14: 33, 1930.

Cutworm lion, see Calosoma calidum

†Cutworms

Beal, N.Y. (C.) Ext. B. 212: 30, 1932.

iBeattie, USDA FB 1338 rev.: 22-23, 1931.

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 45-46, 1931.

Brannen, Ark. B. 297: 94, 1934.

Britton, Conn. B. 344: 170, 1933.

Brooks, Watson & Mowry, Fla. Co-op. Ext. B. 63: 46-47, 1932.

Brower, Ent. News 42: 44-46, 1931.

Chambers, Wis. Dept. Agr. B. 141: 100-102, 1933.

iCocks, Conn. (Storrs) Ext. B. 185: 4, 1933.

Compton, Ill. St. Hort. Soc. Trans. 64: 429-430, 1930.

iCook, Minn. Ext. C. 48: 1934, 8p.

Cory, Md. Ext. Serv. News 17(1): 3, 1932.

Criddle, Can. Hort. Fr. & Truck ed. 54: 262, 1931.

Crosby & Chupp, N.Y. (C.) Ext. B. 206: 92-93, 1931; Ext. B. 206 rev.: 95-96, 1933; Ext. B. 278: 79-80, '34.

iDavis, Ind. Ext. B. 186: 12, 1932.

Desgranges, Big "Y" B. 10(5): 7, 1930.

iDrake & Harris, Iowa Ext. B. 194: 1-3, 1933.

iDustan, Can. Dept. Agr. Ent. B. 32: 16-17, 1932.

Edmond, Strand, & McNall, Mich. Sp. B. 193: 48-49, 1930.

Folsom, USDA FB 1688: 24, 1932.

Gibson, Can. Hort. Fr. & Truck ed. 53: 48, 1930.

iGilbert & Popenoe, USDA FB 1371 rev.: 2-3, 1930.

Gunderson, Neb. R. 44: 24, 1931.

Hatch, Wis. Ext. R. f. 1930-31: 25.

Heath, N. & S. Dak. Hort. 3: 82, 1931.

biHicks, So. Cal. Acad. Sci. B. 30: 75-82, 1931.

Holloway, Facts about Sugar 28: 216-217, 1933.

Linfield, Mont. R. 38: 45-46, 1931.

Lobdell, Fla. R. f. 1933: 169.

Loree, Mich. C. B. 152: 28, 1934.

Lutken, S.C. Ext. Serv. Inf. Cd. 43, 1932.

McDaniel, Mich. Sp. B. 214: 77-82, '31.

Marcovitch, Tenn. R. 42: 33-34, 1929.

Mumford, Ill. R. 46: 142-143, 161-162, 1933.

iPettit, Mich. Ext. B. 117: 9, 17, 1931.

Phipps, Maine B. 360: 189, 1931.

bQuayle, Cal. B. 542: 63, 1932.

iSanderson, Ins. Pests Farm ed. 3: 78-83, 1931.

bSeamans, Pac. Sci. Cong. 5, P. 5: 3475-3477, 1934.

Sestier, Iowa St. Hort. Soc. Trans. 69: 266-267, 1934.

Skinner, Ind. R. 47: 37, 1934.

Skinner & Coleman, Ind. Ext. R. 21: 45-46, 1932; R. 22: 51, 1933.

iSmith, J. Kans. Ent. Soc. 5: 78-79, '32.

iStiles, Okla. Ext. News 13(4): 2, 1932.

iStrickland, Alberta Ext. B. 24: 19-36, 1933.

Thompson, USDA FB 1646: 23-24, '30.

Wallace, Ind. Dept. Conserv. R. 13: 51-52, 1931.

Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1931: 25-26, 1932.

iWatson, Fla. B. 232: 35-37, 88-89, '31.

iWebster, Wash. Ext. B. 186: 3-4, 1934.

Welton, Golfdom 7(10): 33, 1933.

biWolcott, Ec. Ent. of West Indies: 208-212, 275-277, 1933.

Cutworms—Climbing

biCrumb, Bklyn. Ent. Soc. B. 27: 73-98, 1932.

Cutright, Ohio Wkly. P.B. 17(2), 1932.

iMcDaniel, Mich. Sp. B. 243: 36-38, 1933.

iPettit & Hutson, Mich. C.B. 137: 11-14, 1931.

Regan, Wash. St. Hort. Assoc. P. 25: 135, 1929.

Williams, Neb. St. Hort. Soc. P. 61: 99, 1930.

- Cutworms—Loss from**
 Vigor, Sask. Prov. Dept. Agr. R. 24: 19, 1929.
- Cutworms—Parasites**
 Strickland, Alberta Ext. B. 24: 24, '33.
- †**Cutworms—Poison bait**
 iCaesar, Ont. Dept. Agr. B. 359: 6-9, 1931.
 iDustan, Can. Dept. Agr. B. n.s. 161: 16-17, 1932.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 8-9, 1934.
 iGilbert & Popenoe, USDA FB 1371 rev.: 4, 1934.
 Hamilton, B. Amer. Dahlia Soc. 9(64): 14, 1933.
 iHerrick, N.Y. Dept. Agr. & Markets B. 240: 61-62, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.: 33-35, 1933.
- Cutworms—Tobacco dust**
 Avery, Glad. Rev. 9: 199, 1932.
- Cutworms—Traps**
 iKnutsen, Mont. Farm 19(19): 3, 1932.
 Marcovitch, Tenn. R. 47: 25-26, 1934.
- Cyanomyia cadaverina**
 Wilson, J. N.Y. Ent. Soc. 40: 89, 1932.
- Cyathocephalus, see Cyathomyrmex**
- Cyathoceridae**
 Hinton, Pan-Pac. Ent. 9: 161-162, '33.
- Cyathocerus bufo**
 nHinton, Pan-Pac. Ent. 9: 162, 1933.
- Cyathomyrmex**
 Creighton, Psyche 40: 98-100, 1933.
- Cybaeina**
 nChamberlin & Ivie, Utah Univ. B. 23(2): 28-29, 1932.
- Cybaeota**
 inChamberlin & Ivie, Utah Univ. B. 24(5): 1933, 7p.
- Cybaeus—spp.**
 inChamberlin & Ivie, Utah Univ. B. 23(2): 3-28, 1932.
- Cybocephalus sp.**
 Clausen & Berry, USDA TB 320: 36, '32.
 Flanders, J. Ec. Ent. 27: 723-724, 1934.
- Cyclacarus, C. aberrans**
 nEwing, PUSNM 82(30): 13-14, 1933.
- ***Cyclamen mite, see Tarsonemus pallidus**
- Cyclamen insects**
 iCompton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 52-54, 1930.
- Cyclocephala atricolor**
 inChapin, Ann. Ent. Soc. Amer. 25: 289-290, 1932.
- Cyclocephala cubana**
 inChapin, Ann. Ent. Soc. Amer. 25: 291-292, 1932.
- Cyclocephala fusiformis**
 nChapin, Ann. Ent. Soc. Amer. 25: 287, 1932.
- Cyclocephala signata**
 Bruner, Rev. de Agr. Cuba 14(17): 45-46, 1933.
- Cyclocephala signatoides**
 inChapin, Ann. Ent. Soc. Amer. 25: 289, 1932.
- Cyclocephala villosa, see Ochrosidia villosa**
- Cyclolaelaps, C. circularis**
 inEwing, PUSNM 82(30): 5-6, 1933.
- Cycloneda sanguinea**
 Leonard, J. Ec. Ent. 25: 1106-1107, 1932; 26: 294, 1933.
 Loftin & Christenson, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 115[P. Pt. 2]: 10, 1932.
 Otero, Rev. de Agr. Cuba 15(5): 45-46, 1934.
- Cycloneda sanguinea immaculata**
 iWatson & Berger, Fla. Ext. B. 67: 75, 1932.
- Cycloptiloides americanus**
 Swezey, Hawaiian Ent. Soc. P. 7: 390, 1931.
- Cycloptilum spp.**
 Allard, P. Ent. Soc. Wash. 32: 145-146, 1930.
 inHebard, P. Acad. Nat. Sci. Phila. 81: 421-424, 1929.
 inHebard, Trans. Amer. Ent. Soc. 57: 137-158, 1931.
- Cydia molesta, see Grapholitha molesta**
- Cydniidae—Cuba**
 iBarber & Bruner, P.R. Dept. Agr. J. 16: 231-284, 1932.
- †**Cylas formicarius (Sweet potato weevil)***
 iBerly, S.C. C. 43: 18-20, 1930.
 iCockerham, Cal. Agr. Mo. B. 19: 239-244, 1930.
 Colon, P.R. Dept. Agr. & Com. Inf. An. Span. ed f. 1931-1932: 104.
 Del Curto, Tex. Comm. Agr. R. 24: 48-52, 1933.

- iGilbert & Popenoe, USDA FB 1371
rev.: 35, 1934.
- Jacobsen, Cal. Agr. Mo. B. 19: 829,
1930.
- Marlatt, USDA Ent. R. f. 1930: 25; R.
f. 1931: 33; R. f. 1932: 17; R. f. 1933:
21.
- biMex. Agr. & Fomento. Principales
Plagas: 193-194, 1930.
- iO'Neill, Ga. St. Ent. C. 43 rev. 1932. 4p.
Pensado, Rev. de Agr. Cuba 12(5): 23-
24, 1930.
- iSanderson, Ins. Pests Farm ed. 3: 256-
258, 1931.
- Strong, USDA Ent. R. f. 1934: 11.
- iWatson, Fla. B. 232: 95-96, 1931.
- Yeomans, Ga. St. Bd. Ent. B. 75: 6,
1931.
- Yeomans, Ga. St. Ent. B. 77: 6-9, 1933.
- iMiss. St. Pl. Bd. Quar. B. 10(1): 16,
1930; B. 11: 7-10, 1931.
- Cylas formicarius*—Quarantine.
- Fleury, Cal. Agr. Sp. Pub. 115: 156-
157, 1932.
- Fleury, Cal. Agr. Mo. B. 22: 528, 1933.
- Newell, Fla. St. Pl. Bd. Bien. R. 10: 21,
1934.
- Cylindera fasciata*, glabra, puncticollis
nFisher, PUSNM 80(22): 49-53, 1932.
- Cylindrataxia*, C. salicicola
nLinsley, Ent. News 45: 183-185, 1934.
- Cylindrocopturus* spp.
- iKeifer, Pan-Pac. Ent. 6: 167-170, 1930.
- Tillyard, Pac. Sci. Cong. 5, P. 5: 3555,
1934.
- nVan Dyke, Pan-Pac. Ent. 6: 153-158,
1930.
- Cylindrostethus hungerfordi*
nDrake & Harris, Carnegie Mus. Ann.
23: 221, 1934.
- Cylindrostethus linearis*
Drake & Harris, Carnegie Mus. Ann.
19: 238-239, 1930.
- Cylindrostethus palmaris*
nDrake & Harris, Carnegie Mus. Ann.
23: 222, 1934.
- Cylindrostethus regulus*
Drake & Harris, Carnegie Mus. Ann.
19: 238, 1930.
- Cylindrotoma pallescens*
Alexander, Bklyn. Ent. Soc. B. 25: 280,
1930.
- Cyliocyrtus ocreatus*
inLoomis, Smith. Misc. Coll. 89(14): 66-
68, 1934.
- Cyllene crinicornis*
Pemberton, Hawaiian Ent. Soc. P. 8:
510, 1934.
- Cyllene caryae* (Painted hickory borer)
Britton, Conn. B. 344: 118, 1933.
- iGoldman, Trans. Amer. Ent. Soc. 59:
89, 1933.
- iMcDaniel, Mich. Sp. B. 238: 13, 1933.
- Cyllene crinicornis*
Swezey, Hawaiian Ent. Soc. P. 8: 362,
1934.
- Cyllene picta*, see *Cyllene caryae*
- Cyllene robiniae* (Forst.) (Locust borer)*
Britton, Conn. B. 344: 126, 1933.
- Cuno, USDA C. 131: 1, 1930.
- iDavis, Ind. Ext. B. 168: 19-21, 1930.
- iGoldman, Trans. Amer. Ent. Soc. 59:
89, 1933.
- Hamilton, Nat. Shade Tree Conf. P. 9:
70-71, 1933.
- iMacAndrews, Ent. Soc. Ont. R. 63: 48-
50, 1932.
- iMcDaniel, Mich. Sp. B. 238: 11-13, '33.
- Marlatt, USDA Ent. R. f. 1930: 48.
- bSt. George & Beal, J. Ec. Ent. 25: 713-
721, 1932.
- biSoraci, N. J. Dept. Agr. C. 343: 34-35, '34.
- Cyllene robiniae*—Quarantine
Wicks, Cal. Dept. Agr. Sp. Pub. 115:
147, 1932; 119: 15, 1933.
- J. Ec. Ent. 25: 1120, 1932.
- Cyllo leda*
Holloway, Facts about Sugar, 28(5):
218, 1933.
- Cymatodera bicolor*
Knull, Ent. News 43: 42, 1932; 45: 207,
1934.
- Cymatodera neomexicana*
nKnull, Ent. News 45: 9, 1934.
- Cymatophlebia jurassica*, longialata
binCarpenter, Carnegie Mus. Ann. 21:
110-112, 1932.
- Symbolus wolcottii*
nHinton, Can. Ent. 66: 21, 1934.
- Cymbomorpha convexa*
nGoding, Amer. Mus. Nov. 421: 12, '30.
- Cymindis rubiceps*
nAndrews, Conn. Acad. Arts & Sci.
Mem. 10: 27-28, 1934.

- Cymodusa mississippiensis*
Ainslie, USDA TB. 173: 24, 1930.
U.S. Golf Assoc. Green Sec. B. 10: 116, 1930.
- Cynipidae* (Gall wasps)
Aaron, Nature Mag. 18: 159, 1931.
Kostoff et al, Biol. B. 56: 402-458, '29.
Weld, P. Ent. Soc. Wash. 32: 137-144, 1930; 33: 220-227, 1931.
- Cynipoidea* (Gall flies)
Step, Bees, Wasps, Ants: 208-220, '32.
- Cynips* spp.
in Kinsey, Gall wasp genus *Cynips*, 1930, 577p.
Parshley, Ent. News 41: 191-195, 1930.
- Cynthia atalanta*, see *Vanessa atalanta*
- Cynthia cardui*, see *Vanessa cardui*
- Cynthia virginicensis*, see *Vanessa virginicensis*
- Cypherotylus boisduvali*
Smyth, J. Kans. Ent. Soc. 7: 112, 1934.
- Cyphoceratops furcata*
in Metcalf & Bruner, Psyche 37: 403-404, 1930.
- Cyphoderris buckelli*
in Hebard, Trans. Amer. Ent. Soc. 59: 371-373, 1933.
- Cyphoderris piperi*
Fulton, Ann. Ent. Soc. Amer. 23: 630-631, 1930.
- Cyphoderris* spp.
in Hebard, Trans. Amer. Ent. Soc. 59: 371-376, 1933.
- Cyphoderus assimilis*
in Folsom, Hawaiian Ent. Soc. P. 8: 71-72, 1932.
- Cyphogastra bedoci*
Mumford, Hawaiian Ent. Soc. P. 8: 220, 1933.
- Cyphogastra bedoci cyanescens*
in Blair, Bernice P. Bishop Mus. B. 98: 241-242, 1932.
- Cyphomyrmex rimosus arnoldi*
in Aguayo, Bklyn. Ent. Soc. B. 27: 223-224, 1932.
- Cyphon confusus*
in Brown, Can. Ent. 62: 91-92, 1930.
- Cyphon cooperi*
in Schaeffer, Bklyn. Ent. Soc. B. 26: 174, 1931.
- Cyphononyx claggi, rizali, valdezi*
in Banks, Amer. Acad. Arts Sci. P. 69(1): 18-21, 1934.
- Cypress bark beetle*, see *Phloeosinus cristatus*
- Cypress bark scale*, see *Ehrhornia cupressi*
- Cypress insects*
Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 22.
- Cypress twig borer*, see *Phloeosinus cristatus*
- Cypselodopteryx*
Townsend, Ent. News 45: 20, 1934.
- Cypselopteryx*, see *Cypselodopteryx*
- Cyrtophania, C. hirsuta*
in Banks, Hawaiian Ent. Soc. P. 7: 440, 1931.
Williams, Hawaiian Ent. Soc. P. 7: 371-372, 1931.
- Cyrtoptus metcalfi, vanduzeei*
in Ball, Psyche 40: 146-147, 1933.
- Cyrtacanthrinae*
Severin, S. Dak. R. f. 1933: 25-26; R. f. 1934: 38-39.
- Cyrtoclytus formosanus*
in Gressitt, Pan-Pac. Ent. 9: 167-168, '33.
- Cyrtogaster dineutes*
Butcher, Ann. Ent. Soc. Amer. 26: 83, 1933.
- Cyrtolobus* spp.
in Ball, P. Biol. Soc. Wash. 45: 75-82, '32.
- Cyrtopeltocoris gracilentis*
in Knight, Ent. News 41: 321, 1930.
- Cyrtophloeoba nitida*
in Curran, J. N.Y. Ent. Soc. 38: 74-75, 1930.
- Cyrtophorus verrucosus*
Knoll, Ent. News 45: 210, 1934.
- Cyrtophyllus concarus*, see *Pterophylla camellifolia*
- Cyrtorhinus albomatus, balli*
in Knight, Bklyn. Ent. Soc. B. 26: 171-172, 1931.
- Cyrtorhinus mundulus*
Illingworth, Hawaiian Ent. Soc. P. 7: 342, 1931.
Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 47, 1932.
Pemberton, Facts about Sugar 27: 484, 1932.
Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 425, 1931.

- Swezey, Mid-Pac. Mag. 42: 326, 1931.
 Swezey, Hawaiian Ent. Soc. P. 8: 5, 6, 1932.
 Swezey & Williams, Pan-Pac. Res. Inst. J. 6(3): 5-6, 1931.
 Hawaiian Ent. Soc. P. 7: 334, 1931.
 biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 103-104, '31.
- Cyrtorhinus** spp.
 nKnight, Bklyn. Ent. Soc. B. 26: 171-173, 1931.
- Cyrtoxipha gundlachi columbiana**
 Allard, Science n.s. 72: 348, 1930.
- Cysticercus punctulatus**
 Wadley, P. Ent. Soc. Wash. 35: 11-12, 1933.
- Cytodites nudus**, *see* **Cytolichus nudus**
- Cytolichus nudus** (Air sac mite)
 bBice, Hawaii C. 5: 35, 1932.
 Gibson, Sci. Agr. 11: 209, 1930.
 Regenos, Allied Vet. 2(4): 9, 1931.
 Van Es & Olney, Neb. B. 290: 109-110, 1934.
 Vet. Med. 25: 348-349, 1930.
- Dactuliothrips spinosus**
 nMoulton, Pan-Pac. Ent. 7: 174, 1931.
- Dactylolabis hudsonica**
 nAlexander, Bklyn. Ent. Soc. B. 26: 181-182, 1931.
- Dactylopius coccus**
 Sci. News Letter 20: 136, 1931.
- Dactylopius tomentosus**
 bHamlin, Ann. Ent. Soc. Amer. 25: 100-101, 1932.
 Jacob, Sci. News Letter 20: 136, 1931.
 Pop. Mech. 56: 540, 1931.
 Science 74(1912 Sup.): 11, 1931.
- Dactylosternum cacti**
 Blackwelder, Pan-Pac. Ent. 8: 21, 1931.
- Dactylosternum** spp.—Bibliography
 Blackwelder, Pan-Pac. Ent. 8: 30, 1931.
- Dactylothem corallinum**
 Hebard, Trans. Amer. Ent. Soc. 58: 296, 1932.
- Dactynotus (Kakimia) takalus, wahinkae**
 nHottes, P. Biol. Soc. Wash. 46: 19-23, 1933.
- Dactynotus wakibae**
 nHottes, P. Biol. Soc. Wash. 47: 6-8, '34.
- Dacus abbae**
 nMunro, Amer. Mus. Nov. 597: 5-6, '33.
- Dacus aenea**, *see* **Plagiostenopterina (P.) aenea**
- Dacus aethiopicus, bivittatus, eburneus**
 nMunro, Amer. Mus. Nov. 597: 1-3, '33.
- Dacus ferrugineus dorsalis**
 bClausen, USDA C. 168: 40, 1931.
- Dacus gypsoides**
 nMunro, Amer. Mus. Nov. 597: 4-5, '33.
- Dacus oleae** (Gmel.) (Olive fruitfly)*
 Smith, Cal. Agr. Mo. B. 19: 247, 1930.
- Dacus (Marquesadacus) perfuscus**
 Malloch, Bernice B. Bishop Mus. B. 98: 145-146, 1932.
- Dacus tryoni**
 Flanders, Cit. Leaves 12: 4, 16, 1932.
- Daffodil** insects
 iDearing & Griffiths, N.C. Dept. Agr. B. Jan. 1930: 44-45, 47-52.
 Griffiths, USDA C. 122: 64-66, 1930.
- Dahlia** insects
 Bangs, Flow. Grow. 18: 485-486, 1931.
 Brannon, J. Ec. Ent. 27: 1103, 1934.
 Connors, N.J. C. 258: 18-21, 1932.
 Connors, B. Amer. Dahlia Soc. 9(63): 19, 1933.
 iHamilton, N.J. Gardens 2: 19-22, 1931.
 Hamilton, B. Amer. Dahlia Soc. 9(64): 13-15, 1933.
 Huntington, Gard. Club America B. Ser. 5(12): 108-109, 1934.
 Quint, Amer. Home 4: 388, 1930.
 Wallace et al, Ind. Dept. Conserv. R. 14: 56, 1932.
- Dahlbruchus conradti**
 nBridwell, P. Ent. Soc. Wash. 33: 41, 1931.
- Daihinia brevipes**
 Hyslop, J. Ec. Ent. 27: 565, 1934.
- Daihiniodes**
 nHebard, P. Acad. Nat. Sci. Phila. 81: 413-417, 1929.
- Dalopius** spp.
 inBrown, Can. Ent. 66: 30-39, 66-72, 87-96, 102-110, 1934.
- Damalis americanus**
 nCurran, Amer. Mus. Nov. 425: 5-6, '30.
- Damalis conspicua**
 nCurran, Amer. Mus. Nov. 710: 10, '34.
- Dameosoma alces, ultraciliata**
 inJacot, Bernice P. Bishop Mus. B. 121: 19-25, 1934.

- Damp-wood termite**, *see* *Zootermopsis angusticollis*
- Danaida eresimus**, *see* *Danaus eresimus*
- Danaids cleothera**, *see* *Danaus cleothera*
- Danaus archippus**
iBeard, Amer. Boys' Bk. Bugs: 169-170. 1932.
Murray-Aaron, Ent. News 45: 133-134, 1934.
iPackard, Nature Mag. 21: 77-80, 1933.
iSaunders, N.Y. St. Mus. Hdbk. 13: 179-186, 1932.
iSci. News Letter 21: 373, 1932.
- Danaus berenice**
iComstock, S. Cal. Acad. Sci. B. 31: 16, 1932.
- Danaus cleothera**
iRoig & Villabaz, Rev. de Agr. Cuba 15(4): 32, 1934.
- Danaus eresimus**
Bates, Ent. News 45: 168, 1934.
- Danaus menippe** (Hbn.) (Monarch butterfly)*
iThoms, Better Homes 9(1): 21, 82-83, 1930.
iWeed, Insect Ways 1-18: 1930.
iWoodward, Nature Mag. 20: 123-125, 1932.
- Danaus plexippus**
iHeath, Flow. Grow. 17: 394-395, 1930.
- Dark apple redbug**, *see* *Heterocordylus malinus*
- *Dark mealworm**, *see* *Tenebrio obscurus*
- Darkling beetle**, *see* *Eleodes dentipes*
- Darkling ground beetles**, *see* *Blapstinus* spp.
- Dascalina tumida**
nVan Duzee, Cal. Acad. Sci. P. Ser. 4 21(4): 39, 1933.
- Daseochaeta mckeanae**
nCockerell, Bklyn. Ent. Soc. B. 25: 42-43, 1930.
- Dash-marked cutworm**, *see* *Lampra brunneicollis*
- Dasymutilla occidentalis** (Red and black sand ant)
iAaron, Nature Mag. 19: 159-160, '32.
- Dasyneura leguminicola** (Clover-seed Midge)*
Howard, Fighting the Insects: 300-301, 1933.
- Dasyneura mali**
Felt, J. Ec. Ent. 25: 932, 1932.
Hyslop, J. Ec. Ent. 27: 564-565, 1934.
- biWhitcomb, J. Ec. Ent. 27: 355-361, '34.**
Whitcomb, Mass. B. 305: 34-35, 1934.
- Dasyneura pyri**
Hedrick, N.Y. (Gen.) R. 51: 57, 1932.
Hyslop, J. Ec. Ent. 27: 565, 1934.
Mundinger, J. Ec. Ent. 25: 728-729, 1932.
Whitcomb, J. Ec. Ent. 27: 357, 1934.
- Dasyneura rhodophaga** (Rose midge)*
bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 38-39, 1931.
Britton, Conn. B. 315: 615, 1930.
Britton, Conn. B. 344: 158, 1933.
Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 78-80, 1930.
iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 57, 1934.
Haseman & Jones, Missouri B. 342: 24, 1934.
McDaniel, Mich. Sp. B. 214: 85-86, 1931.
- Datana integerrima** G. & R. (Walnut caterpillar)*
iBeilmann, Missouri Bot. Gard. B. 21: 121, 1933.
Britton, Conn. B. 344: 175, 1933.
Burkett, Tex. Dept. Agr. B. 111: 208-209, 1932.
iDavis, Ind. Ext. B. 168: 11-14, 1930.
Gates, Flow. Grow. 19: 484-485, 1932.
iMcDaniel, Mich. Sp. B. 243: 29, 1933.
iMoznette et al, USDA FB 1654: 34-37, 1931.
Porter, North. Nut Grow. Assoc. R. 23: 75, 1932.
- biSoraci, N.J. Dept. Agr. C. 243: 15-16, 1934.**
Twinn, Ent. Soc. Ont. R. 64: 77, 1933; R. 65: 127, 1934.
Walker, Fla. R. f. 1932: 84.
- Datana ministra** (Drury) (Yellow-necked caterpillar)*
Britton, Conn. B. 344: 78-79, 1933.
McDaniel, Mich. Sp. B. 243: 30, 1933.
iPettit & Hutson, Mich. C. B. 137: 17, 1931.
iQuaintance & Siegler, USDA FB 1270 rev.: 46-48, 1931.
Richardson, Iowa R. f. 1934: 96-97.

- iRoss, Can. Dept. Agr. B. 129: 43-44, 1930.
- iSmith, J. Kans. Ent. Soc. 5: 88, 1932.
- Twinn, Ent. Soc. Ont. R. 64: 70, 1933; R. 65: 119, 1934.
- Wallace, Ind. YB f. 1932: 305.
- Wallace et al, Ind. Dept. Conserv. R. 15: 53, 1932.
- Datana spp.**
- Smith, J. Kans. Ent. Soc. 5: 88, 1932.
- Date palm insects**
- Boyden, Date Grow. Inst. R. 7: 16-19, 1930; R. 8: 12-14, 1931; R. 9: 12, 1932; R. 10: 10-11, 1933.
- Marlatt, USDA Ent. R. f. 1932: 6; R. f. 1933: 10.
- biStickney, USDA TB 421, 1934, 67p.
- Daulia sp.**
- iLee, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 101 [P. Pt. 2]: 4-5, 1932.
- Daza nayaritensis**
- inDavis, J. N.Y. Ent. Soc. 42: 50-52, '34.
- Dead bark beetle, see *Magdalis anescens***
- Death watch beetle, see *Anobium punctatum***
- Debilis fraudulenta**
- inHaviland-Brindley, Zoologica 7: 147-149, 1931.
- Decadiomus**
- nChapin, P. Biol. Soc. Wash. 46: 96, '33.
- Decadiomus hubbardi**
- inChapin, P. Biol. Soc. Wash. 46: 98, '33.
- Decadiomus peltatus**
- inChapin, P. Biol. Soc. Wash. 46: 99, '33.
- Decadiomus pictus**
- iBoving, P. Biol. Soc. Wash. 46: 101-104, 1933.
- inChapin, P. Biol. Soc. Wash. 46: 97-98, 1933.
- Decadiomus sp.**
- Otero, Rev. de Agr. Cuba 15(5): 48, '34.
- Decadiomus tricuspidis**
- inChapin, P. Biol. Soc. Wash. 46: 98, '33.
- Decatoma amsterdamensis**
- biGahan, USDA Misc. Pub. 174: 38-41, 1933.
- Decatomini**
- biBalduf, PUSNM 79(28): 1932. 95p.
- Deciduous fruit insect laboratory**
- Skinner & Reed, Ind. R. 44: 31, 1931; R. 45: 38, 1931.
- Decorated strawberry root-weevil, see *Dyslobus decoratus***
- *Deer flies, see *Chrysops* spp.**
- Deer insects**
- iDixon, Cal. Fish & Game 20(3/4): 103-105, 1934.
- Deer louse fly, see *Lipoptena depressa***
- Deer nose-fly, see *Cephenomyia phobifer***
- Degeeriella austini, falcigera**
- inPeters, Ann. Ent. Soc. Amer. 24: 583-596, 1931.
- Deilemiera antinorii**
- Poulton, Science n.s. 74, 353, 1931.
- Deilephila lineata**
- McDaniel, Mich. Sp. B. 243: 48, 1933.
- Deinocerites cancer Theob. (Crab hole mosquito)***
- biGerry, Ann. Ent. Soc. Amer. 25: 43-44, 1932.
- Deinocossoussus sp.**
- Swezey, Hawaiian Ent. Soc. P. 7: 367, 1931.
- Deipnopsocus texanus**
- inBanks, Psyche 37: 223, 1930.
- Delatorreia, D. hoplites**
- inBoone, BAMNH 66: 585-589, 1934.
- Deleaster dichrous**
- Chagnon, Can. Ent. 66: 282, 1934.
- Dellamora spp.**
- inRay, Coleop. Contrib. 1: 151-154, '30.
- Delopsis consanguinea**
- nCameron, Conn. Acad. Arts & Sci. Mem. 10: 18, 1934.
- Delousing**
- bMatheson, Med. Ent.: 165-170, 1932.
- iStevenson, Ont. Dept. Agr. B. 363: 13-14, 1931.
- Delphastus pallidus, pusillus**
- Otero, Rev. de Agr. Cuba 15(5): 48, '34.
- Delphax (Liburnia) furcifer, see *Sogata furcifer***
- Deltaspis rubriventris**
- Smyth, J. Kans. Ent. Soc. 7: 117, 1934.
- Deltocephalus durus**
- inBeamer & Tuthill, J. Kans. Ent. Soc. 7: 20-21, 1934.
- Deltocephalus inimicus, see *Polyamia inimica***
- Deltocephalus insularis**
- nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 30-31, 1933.

- Deltocephalus laredanus**
in Oman, P. Ent. Soc. Wash. 36: 78-79, 1934.
- Deltocephalus lineatifrons**
in Oman, J. Wash. Acad. Sci. 21: 432-433, 1931.
- Deltocephalus sayi**, *see* **Latalus sayi**
- Deltocephalus spp.**
iBeamer & Tuthill, J. Kans. Ent. Soc. 7: 1-24, 1934.
- Deltocephalus striatus**, *see* **Laevicephalus striatus**
- Deltocephalus valens**
in Beamer & Tuthill, J. Kans. Ent. Soc. 7: 20, 1934.
- Deltocephalus yavapai**
in Tuthill, J. Kans. Ent. Soc. 3: 45-46, 1930.
- Deltopinus**
nBall, Can. Ent. 63: 218-219, 1931.
- Demodectic mange**, *see* **Demodex canis**
- Demodex bovis** Stiles (Cattle follicle mite)*
North Amer. Vet. 13(2): 33-34, 1932.
- Demodex canis** Leydig (Dog follicle mite)*
Alston, Vet. Med. 28: 164, 1933.
Caler, J. Kans. Ent. Soc. 4: 83, 1931.
iHall, USDA C. 338 rev.: 7-10, 1934.
- Demodex folliculorum**
Bryan, North Amer. Vet. 12(7): 46-47, 1931.
Butler, Vet. Med. 25: 325, 1930.
bCrane, N.Y. St. Vet. Coll. R. f. 1931-32: 106-110, 1933.
Lentz, Vet. Med. 25: 334-335, 1930.
iLittle, J. Amer. Vet. Med. Assoc. 80: 922-926, 1932.
- biO'Flaherty & Roddy, J. Amer. Leath. Chem. Assoc. 26: 394-403, 1931.
iOrmsby, Pract. Treat. Dis. Skin. ed. 4: 1077-1078, 1934.
Rawson, Sci. Month. 39: 509, 1934.
biRiley & Johannsen, Med. Ent.: 61-63, 1932.
- Dendroctonus approximatus** Dietz (Colorado pine beetle)*
biBlackman, N.Y. St. Col. For. TB 36: 30, 1931.
- Dendroctonus barberi** Hopk. (Southwestern pine beetle)*
Blackman, N.Y. St. Col. For. TB 36: 32-33, 1931.
- Dendroctonus borealis** Hopk. (Alaska spruce beetle)*
Twinn, Ent. Soc. Ont. R. 65: 123, 1934.
- Dendroctonus brevicornis** Lec. (Western pine beetle)*
Beal, J. Ec. Ent. 24: 575, 1931.
biBeal, J. Ec. Ent. 27: 1132-1139, 1934.
Craighead, J. For. 29: 1004-1008, 1931.
Heisley, USDA Misc. Pub. 162: 23, '33.
iHosmer, Amer. For. 36: 716-717, 739-740, 1930.
Keen, USDA YB f. 1931: 428-430.
Marlatt, USDA Ent. R. f. 1930: 45-47; R. f. 1932: 22-23; R. f. 1933: 28-29.
biMex. Agr. & Fomento, Principales Plagas: 230, 1930.
- biMiller, J. Agr. Res. 43: 303-321, 1931.
Miller, J. For. 31: 443-446, 1933.
Person, J. For. 29: 696-699, 1931.
Salman, Cal. Agr. Mo. B. 22: 136, 1933.
Salman, J. For. 32: 1016-1017, 1934.
Salman & Baumhofer, J. Ec. Ent. 24: 776, 1931.
Weaver, J. For. 32: 100-103, 1934.
- Dendroctonus convexifrons** Hopk. (Round-headed pine beetle)*
bBlackman, N.Y. St. Col. For. TB 36: 29-30, 1931.
- Dendroctonus frontalis** Zimm. (Southern pine beetle)*
Beal, J. For. 31: 328-336, 1933.
Bentley, Tenn. Bien. R. f. 1929-30: 105-106.
bKnull, J. Ec. Ent. 27: 716-718, 1934.
Lutken, S.C. Wkly. News Notes 19: 23, 1930.
Marlatt, USDA Ent. R. f. 1930: 47-48; R. f. 1933: 29.
Moore, Southern Lumberman 145 (1833): 21, 1932.
- biRumbold, J. Agr. Res. 43: 851-862, '31.
Rumbold, Ecol. Soc. Amer. B. 13(4): [17], 1932.
J. Ec. Ent. 23: 478, 1930.
- Dendroctonus jeffreyi** Hopk. (Jeffrey pine beetle)*
Craighead et al., J. For. 29: 1016, 1931.
- Dendroctonus monticolae** Hopk. (Mountain pine beetle)*
Craighead et al., J. For. 29: 1009-1016, 1931.

- iDeLeon, J. For. 32: 430-436, 1934.
 Evenden, Northw. Sci. 4: 52-53, 1930.
 iEvenden, USDA YB f. 1931: 391-393.
 Gibson, J. Ec. Ent. 24: 575, 1931.
 iHastings, Outdoor Amer. 10(5): 17-19, 1931.
 Marlatt, USDA Ent. R. f. 1930: 45-47; R. f. 1932: 23; R. f. 1933: 29.
 iMorse, USDA YB f. 1931: 430-432.
 iPatterson, USDA TB 195, 1930, 19p.
 Salman, Cal. Agr. Mo. B. 22: 135-136, 1933.
 Twinn, Ent. Soc. Ont. R. 65: 123, 1934.
 Weaver, J. For. 32: 100-103, 1934.
 Weir, Can. Min. Agr. R. f. 1930/1: 128.
- Dendroctonus monticolae—Parasites**
 De Leon, Can. Ent. 66: 51-61, 1934.
 Rust, Timberman 32(6): 89, 1931.
 iSteiner, J. Agr. Res. 45: 437-444, 1932.
 Timberman 34(6): 64, 1933.
- Dendroctonus piceaperda Hopk. (Eastern spruce beetle)***
 Balch, N.S. Dept. Lands & For. R. f. 1931: 52, 1932; R. f. 1932: 48, 1933.
 Balch, For. Chron. 7: 66, 1931.
 Balch, Pulp & Paper Mag. of Can. 35: 680, 1934.
 iPeirson, Field Book of Destruct. For. Ins. ed. 2: 7, 1932.
 iSwaine, Can. Dept. Agr. Div. For. Ins. Sp. C. July 1930, 2p.; Sp. C. 1931, [4p].
 Swaine, For. Chron. 9(4): 12, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 74, 1933; R. 65: 123, 1934.
- Dendroctonus ponderosae Hopk. (Black Hills beetle)***
 biBlackman, N.Y. St. Col. For. T. Pub. 36, 1931, 97p.
 Craighead et al, J. For. 29: 1016-1018, 1931.
 biMex. Agr. & Fomento, Principales Plagas: 230-231, 1930.
- Dendroctonus pseudotsugae Hopk. (Douglas fir beetle)***
 biBedard, J. Ec. Ent. 26: 1128-1134, '33.
 Hopping, Timberman 33(7): 61, 1932.
- Dendroctonus rufipennis (Kby.) (Red-winged pine beetle)***
 Watson, Can. Ent. 63: 126-127, 1931.
- Dendroctonus simplex Lec. (Eastern larch beetle)***
 Prebble, Can. Ent. 65: 146, 1933.
- Dendroctonus spp.**
 iEades, Can. Dept. Int. For. Serv. B. 80: 93-95, 1932.
 Ernst, Yosemite Nature Notes 11(11): 3, 1932.
- Dendroctonus valens Lec. (Red turpentine beetle)***
 Blackman, N.Y. St. Col. For. TB 36: 31-32, 1931.
 Burke, Cal. Agr. Mo. B. 21: 366, 1932.
 iWalther, J. Ec. Ent. 26: 828-831, 1933.
 Walther, Pan-Pac. Ent. 9: 47, 1933.
- Dendroides canadensis**
 Barber, Psyche 39: 36-37, 1932.
 Payne, Ent. News 41: 13-15, 1931.
- Dendroides pacificus**
 nBarrett, Pan-Pac. Ent. 8: 171, 1932.
- Dendrolimus pini**
 bDeGryse, Sci. Agr. 14: 485-487, 1934.
- Dendrothrips ornatus**
 Felt, J. Ec. Ent. 25: 930, 1932; 26: 47, 1933.
 Felt, Nat. Shade Tree Conf. P. 8: 79, 1932.
 Moulton, Bklyn. Ent. Soc. B. 26: 75, 1931.
 Turner & Plumb, Conn. B. 338: 595, 1932.
- Dendryphantes concoloratus**
 inChamberlin & Gertsch, P. Biol. Soc. Wash. 43: 144, 1930.
- Dendryphantes militaris**
 Yothers, USDA TB 402: 36, 1934.
- Denisia, D. falcata**
 inFolsom, Hawaiian Ent. Soc. P. 8: 61-62, 1932.
- Dennysus spp.**
 inEwing, PUSNM 77(20): 1-10, 1931.
- Dentothrips, D. graminis**
 inFaure, Bklyn. Ent. Soc. B. 28: 10-12, 1933.
- *Deodar weevil, see Pissodes nemorensis**
***Depluming mite, see Cnemidocoptes gallinae Raill.**
- Depressaria dracunculi**
 inClarke, Can. Ent. 65: 90-91, 1933.
- Depressaria heracliana (Deg.) (Parsnip webworm)***
 iCaesar, Ont. Dept. Agr. B. 359: 29-30, 1931.
 iDustan, Can. Dept. Agr. Ent. B. 32: 51, 1932.

- Depressaria juliella**
Clarke, Can. Ent. 66: 178-179, 1934.
- Depressaria leptotaeniae**
in Clarke, Can. Ent. 65: 87-89, 1933.
- Depressaria multifidae**
in Clarke, Can. Ent. 65: 85-87, 1933; 66: 179, 1934.
- Dermacentor albipictus (Pack.) (Winter tick)***
iBishopp, Smithson. R. f. 1933: 401-402.
Bruce, Can. Vet. Dir. Gen. R. f. 1931: 73.
Buckell, B.C. Ent. Soc. P. 31: 15, 1934.
Cahn, Wallace & Thomas, Science, n.s. 76: 385-386, 1932.
biCooley, Mont. B. 268: 9-14, 1932.
Fenstermacher, Minn. B. 308: 15, 1934.
biFenstermacher & Jellison, Minn. B. 294, 1933, 20p.
Hall, Outdoor Amer. 9: 12, 16, 1931.
Mohler, USDA FB 1625: 10, 1930.
Plummer, Can. Vet. Dir. Gen. R. f. 1931: 76.
biThomas & Cahn, J. Parasit. 18: 219-230, 1932.
Twinn, Ent. Soc. Ont. R. 64: 78, 1933.
Wallace, Amer. Vet. Med. Assoc. J. n.s. 37: 770-772, 1934.
Wallace, Cahn & Thomas, J. Infect. Dis. 53: 386-414, 1933.
Weir, Can. Min. Agr. R. f. 1932: 191.
- Dermacentor andersoni, see Dermacentor venustus**
- Dermacentor circumguttatus**
Bequaert, Amer. Mus. Nov. 426: 10, 1930.
- Dermacentor halli**
nMcIntosh, J. Parasit. 18: 124, 1931.
iMcIntosh, PUSNM 82(4) 1932, 6p.
- Dermacentor nitens Neum. (Tropical horse tick)***
biZinsser & Castaneda, J. Exp. Med. 54: 18-21, 1931.
- Dermacentor occidentalis Neum. (Pacific coast tick)***
Dixon, Cal. Fish & Game 20(3/4): 104, 1934.
biParker, Philip & Jellison, Amer. J. Trop. Med. 13: 352-356, 1933.
Mont. St. Bd. Health Bien. R. 15: 7, 1930.
- Dermacentor parumapertus**
biParker, Philip & Jellison, Amer. J. Trop. Med. 13: 356-357, 1933.
- Dermacentor rhinocerinus**
Bequaert, Amer. Mus. Nov. 426: 9-10, 1930.
- Dermacentor sp.**
Ruhmann, B.C. Dept. Agr. R. 24, I 41, 1930.
- Dermacentor variabilis (Say) (American dog tick)***
Bequaert, Carnegie Inst. Wash. Pub. 431: 550, 1933.
Bishopp, USDA Off. Rec. 9(35): 2, '30.
biCooley, Mont. B. 268: 14-17, 1932.
iHall, USDA C. 338, rev.: 11-13, 1934.
Herrick, Rur. N.Y. 91: 882, 1932.
biMatheson, Med. Ent.: 48-49, 1932.
Mohler, USDA FB 1625: 10, 1930.
Rumreich, Dyer & Badger, U.S. Pub. Health R. 46: 479, 1931.
Mont. St. Bd. Ent. Bien. R. 8: 12, '30.
- Dermacentor variabilis and Anaplasmosis**
Rees, North Amer. Vet. 12(11): 15, '31.
Rees, USDA Off. Rec. 10: 313, 317, '31.
Rees, Science n.s. 75: 318-320, 1932.
Wright, J. Parasit. 19: 85, 1932.
- Dermacentor variabilis and Rocky Mt. spotted fever**
bBadger, U.S. Pub. Health R. 47: 2365-2369, 1932.
iBishopp, Smithson. R. f. 1933: 402-403.
Draper, Va. Med. Month. 61: 171-174, 1934.
biDyer, Badger & Rumreich, U.S. Pub. Health, R. 46: 1404-1413, 1931.
Dyer, Rumreich & Badger, J. Amer. Med. Assoc. 97: 591, 1931.
bGasser, U.S. Nav. Med. B. 30: 513-516, 1932.
Parker, Pac. Sci. Cong. 5: P. 5, 3369, 1934.
biParker, Philip & Jellison, Amer. J. Trop. Med. 13: 348-352, 1933.
Amer. Pub. Health Assoc. J. 21: 541, 1931.
bJ. Amer. Med. Assoc. 101: 607-608, '33.
Mont. St. Bd. Health Bien. R. 15: 7, 1930.
U.S. Pub. Health R. 48: 471-473, 1933.

Dermacentor variabilis and Tularemia

- bGreen, Amer. J. Hyg. 14: 600-613, '31.
bPhilip, U.S. Pub. Health R. 49: 386-392, 1934.

Dermacentor variabilis and Typhus

- Dyer et al., Jour. Infect. Dis. 51: 139-142, 1932.

Dermacentor venustus (Wood tick; Spotted fever tick)

- iBishopp, USDA YB f. 1931: 516-519.
Butler, Mont. St. Bd. Ent. Bien. R. 8: 28, 1930.
Cooley, Science n.s. 71: 419-420, 1930.
biCooley, Mont. B. 268, 1932, 58p.
biFenstermacher & Jellison, Minn. B. 294, 1933, 20p.
Marsh, Nat. Wool Grow. 21(3): 26, '31.
biMatheson, Med. Ent.: 46-48, 58-66, 1932.
Metcalf, Ill. St. Acad. Sci. Trans. 23: 271, 1931.
Parker, Pac. Sci. Cong. 5, P. 5: 3367-3374, 1934.
Philip, U.S. Pub. Health R. 46: 2172, 1931.
Philip, J. Parasit. 20: 338, 1934.
biRiley & Johannsen, Med. Ent.: 81-83, 89, 1932.
Sanderson, Ins. Pests Farm, ed. 3: 543-547, 1931.
Spencer, U.S. Pub. Health R. 46: 2101, 1931.
Twinn, Que. Soc. Prot. Pl. R. 23/24: 164, 1932.
Twinn, Ent. Soc. Ont. R. 64: 78, 1933.
Wakeland, Ida. News Letter 17(3): 4, 1933.
Weir, Can. Min. Agr. R. f. 1930/1931: 147: R. f. 1931/1932, 191.
USDA YB f. 1934, 87.
U.S. Pub. Health R. 47: 726-727, 1932.
- Dermacentor venustus—Parasites**
Cooley, Science n.s. 71: 419, 1930.
Cooley, U.S. Pub. Health R. 49: 111-112, 1934.
- Dermacentor venustus and Anaplasmosis**
Rees, USDA Off. Rec. 11: 53, 59, '32.
Wright, J. Parasit. 19(1): 86, 1932.
- Dermacentor venustus and Colorado tick fever**
Spencer, U.S. Pub. Health R. 46: 2101, 1931.

Dermacentor venustus and Paralysis

- iBruce, Can. Dept. Agr. B. 133, 1930, 7p.
Hearle, B.C. Ent. Soc. P. 30: 11-16, 1933.
- Dermacentor venustus and Relapsing fever**
bHearle, Can. Med. Assoc. J. 30: 495, 1934.
- Dermacentor venustus and Rocky Mt. spotted fever**
biBecker, Col. Med. 27: 36-40, 1930.
iBishopp, Smithsonian. R. f. 1933, 403-404.
Buckell, B.C. Ent. Soc. P. 31: 11-13, 1934.
Cameron, Internat. Assoc. Game, Fish & Conserv. Comm. Conv. 28: 79-83, 1934.
Cecil, Text-book of Med. ed. 3: 512, '34.
Faby, U.S. Vet. Bur. Med. B. 7: 33-38, 1931.
Magruder, U. S. Vet. Bur. Med. B. 7: 127-128, 1931.
Ormsby, Pract. Treat. Dis. Skin. ed. 4 rev.: 458-460, 1934.
- biParker, Philip & Jellison, Amer. J. Trop. Med. 13: 341-379, 1933.
bPhilip, U.S. Pub. Health R. 48: 266-272, 1933.
biSpencer & Parker, Hyg. Lab. B. 154, 1930, 116p.
bToomey, Ann. Int. Med. 5: 585-612, 1931.
Cal. St. Dept. Pub. Health Wkly. B. 12: 65-66, 1933.
Mont. St. Bd. Ent. Bien. R. 8: 7, 1930.
Mont. St. Bd. Health Bien. R. 15: 6-7, 1930.
U.S. Pub. Health R. 48: 471-473, 1933.
- Dermacentor venustus and Tularemia**
Davis, Philip & Parker, J. Bacteriol. 25(1): 87, 1933.
Davis, Philip & Parker, Amer. J. Hyg. 19: 449-456, 1934.
Hastings, South. Med. J. 24: 58, 1931.
bVolkmar, Amer. Fur Breeder 5(5): 26-27, 1932.
J. Amer. Med. Assoc. 94: 721, 1930.
Mich. Pub. Health 18: 251-252, 1930.
- Dermacentor venustus and Typhus fever**
biZinsser & Castaneda, J. Exp. Med. 54(1): 11-20, 1931.

Dermanyssus evotomydis

inEwing, PUSNM 82(30): 11-12, 1933.

Dermanyssus gallinae (Deg.) (Chicken mite)*

bBice, USDA C. 5: 34-35, 1932.

iBishopp & Wagner, J. Ec. Ent. 24: 57, 1931.

iBishopp & Wood, USDA FB 801 rev.: 1-5, 1931.

Buckley, USDA FB 1652: 56-61, 1931.

Buckley & Bunyea, USDA FB 1652 rev.: 60-62, 1933.

Caler, J. Kans. Ent. Soc. 4: 79, 1931.

Carpenter, Cal. Cult. 74: 626, 1930.

F.J.E., Fla. Grow. 38(10): 17, 1930.

Gibson, Sci. Agr. 11: 209, 1930.

Horton, Amer. Agr. 129(26): 12-13, '32.

iLamon & Kinghorne, Pract. Poul. Prod. rev.: 325-327, 1930.

Lee, Profit. Poultry Manag. ed. 6: 130, 1933.

Marcovitch, Tenn. Ext. Pub. 177, 1933,

2p.

Mayo, Fla. Dept. Agr. B. 34 n.s.: 56, 1930.

Monahan, Mass. Ext. Leaf. 28, rev.: 3-4, 1932.

Regenos, Allied Vet. 2(4): 8-9, 1931.

Riley & Johannsen, Med. Ent.: 64, '32.

iSanderson, Ins. Pests Farm, ed. 3: 524-527, 1931.

iStevenson, Ont. Dept. Agr. B. 363: 16, 1931.

Van Es & Olney, Neb. B. 290: 104-105, 1934.

Dermanyssus prognepphilus

niEwing, PUSNM 82(30): 12, 1933.

Dermaptera

Buckell, B.C. Ent. Soc. P. 27: 17-51, 1930.

Hebard, Trans. Amer. Ent. Soc. 59: 13-67, 105-108, 1933.

Hebard, Pan-Pac. Ent. 9: 140-144, '33.

biHebard, Ill. Nat. Hist. Surv. B. 20: 125-279, 1934.

Hebard, J. Kans. Ent. Soc. 7: 25-36, 1934.

biRehn, P. Acad. Nat. Sci. Phila. 85: 39-66, 1933.

biRehn, Trans. Amer. Ent. Soc. 59: 1-10, 159-166, 1933.

Dermatobia

Neiva & Gomez, Rev. Agr. P.R. 24: 99-106, 123, 1930.

Dermatobia cyaniventris

Riley & Johannsen, Med. Ent.: 318-320, 1932.

Dermatobia hominis

iDunn, Psyche, 37: 327-342, 1930.

bDunn, J. Parasit. 20: 219-226, 1934.

Dunn, Psyche 41: 176, 1934.

Hinman, Ann. Ent. Soc. Amer. 25: 622, 1932.

bHoffman, Gay, Agents of Disease: 1424, 1935.

biMatheson, Med. Ent.: 391-395, 1932.

Rawson, Sci. Month. 39: 501, 1934.

Riley & Johannsen, Med. Ent.: 318-320, 1932.

iWieand, U.S. Nav. Med. B. 31: 370-371, 1933.

Dermatobia spp.

iNeiva & Gomez, Rev. Agr. P.R. 24: 99-106, 123, 1930.

Dermatocaptis

Robertson, Amer. Leather Chem. Assoc. J. 32: 554, 1932.

Dermestes cadaverinus

Hawaiian Ent. Soc. P. 7: 331, 1931.

Dermestes caninus

Wallace, Ind. Dept. Conserv. R. 13: 57, 1931.

Wallace, Ind. St. Dept. Conserv. Div. Ent. R. f. 1931: 31, 1932.

Dermestes lardarius L. (Larder beetle)*

Buckley, USDA FB 1652: 62, 1931.

Buckley & Bunyea, USDA FB 1652 rev.: 67, 1933.

Gray, Ent. Soc. Ont. R. 65: 67, 1934.

Herrick & Griswold, N.Y. (C.) Ext. B. 202, rev.: 48-49, 1934.

McDaniel, Mich. Quar. B. 16: 169, '34.

Twinn, Ent. Soc. Ont. R. 65: 128, 1934.

Dermestes sp.

Anderson, Can. Dept. Mines Nat. Mus. B. 69: 68, 1932.

iBeard, Amer. Boys' Bk. Bugs: 226-229, 1932.

Dermestes vulpinus F. (Hide beetle)*

biO'Flaherty & Roddy, Amer. Leather Chem. Assoc. J. 28: 300-302, 1933.

Robertson, Amer. Leather Chem. Assoc. J. 29: 128, 1934.

- biRobinson, Ann. Ent. Soc. Amer. 23: 399-414, 1930.
- Dermestidae**
 Betten, N.Y. (C.) R. 45: 122-123, 1932.
 Herrick & Griswold, N.Y. (C.) R. 46: 106, 1933.
- biO'Flaherty & Roddy, Amer. Leather Chem. Assoc. J. 28: 300, 1933.
- Derobrachus geminatus**
 Smyth, J. Kans. Ent. Soc. 7: 116, 1934.
 Van Dyke, Pan-Pac. Ent. 10: 58, 1934.
- Derocalymma spp.**
 binRehn, P. Acad. Nat. Sci. Phila. 84: 475-506, 1933; 85: 42-48, 1934.
- Derocrepis rufipes**
 Marcovitch, Tenn. R. 44: 47, 1931.
 iQuaintance & Siegler, USDA FB 1270: 38, 1931.
- Derolathrus atomus**
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 389, 1931.
- Deromyia spp.**
 bBromley, J. N.Y. Ent. Soc. 38: 163-165, 1930.
 nBromley, Ann. Ent. Soc. Amer. 24: 433, 1931.
 nCurran, Amer. Mus. Nov. 425: 1-2, '30.
 nJames, Amer. Mus. Nov. 596: 2, 1933.
 Rogers, Ecol. Monog. 3(1): 35, 1933.
- Derospidea, D. brevicollis, ornata**
 niBlake, PUSNM 79(2): 32-35, 1932.
- Derovatellus floridanus**
 nFall, Bklyn. Ent. Soc. B. 27: 146-148, 1932.
- Desert damp-wood termite, see Paraneotermes simplicicornis**
- Desert subterranean termite, see Heterotermes aureus**
- Desmia funeralis (Hbn.) (Grape leaf folder)***
 Dean, Kans. St. Hort. Soc. Bien. R. 40: 141, 1930.
 Eddy et al, Ky. B. 353: 234, 1934.
 biLockwood, Cal. Agr. Mo. B. 22: 339, 1933.
 iQuaintance & Siegler, USDA FB 1666: 87, 1931.
- Desmia funeralis—Parasites**
 Donohoe & Barnes, J. Ec. Ent. 27: 859, 1934.
- Desmocerus auripennis**
 iBallou, Yosemite Nature Notes 9: 68, 1930.
- Desmocerus californicus**
 Davis, Bklyn. Ent. Soc. B. 26: 187, '31.
- Desmocerus palliatus**
 iGoldman, Trans. Amer. Ent. Soc. 59: 93, 1933.
- Desmometopina**
 nCurran, BAMNH 61: 81, 1931.
- Desmomyza**
 inCurran, Fam. & Gen. of North Amer. Diptera: 338, 1934.
- Desmoris fulvus (Sun flower weevil)**
 Bigger, J. Ec. Ent. 23: 287, 1930.
 Mumford, Ill. R. 45: 132, 1932.
- Desmoris fulvus—Parasites**
 Bigger, J. Ec. Ent. 24: 558, 1931.
 Bigger, J. Ec. Ent. 25: 591, 1932.
- Destructive billbug, see Calendra destructor.**
- Destructive leaf hopper, see Exitianus obscurinervis.**
- Destructive prune worm, see Mineola scitulella.**
- Deuterationia papago, pilosa**
 nBanks, Psyche 40: 16-18, 1933.
- Dexia pristis**
 Aldrich, PUSNM 80(10): 6, 1931.
- Dexia ventralis**
 iBurrell, J. Agr. Res. 43: 323-336, 1931.
 biClausen, Jaynes & Gardner, USDA TB 366: 20-25, 1933.
 King, J. Ec. Ent. 24: 459-460, 1931.
 Marlatt, USDA Ent. R. f. 1930: 6; R. f. 1931: 23-24; R. f. 1932: 9.
 U.S. Golf Assoc. B. 10: 190, 1930.
- Dexodes conica, insignis**
 nReinhard, Bklyn. Ent. Soc. B. 29: 188-191, 1934.
- Diabolical yellowjacket, see Vespa (Dolichovespula) arenaria**
- Diabrotica balteata Lec. (Banded cucumber beetle)***
 Davis, J. Ec. Ent. 24: 560, 1931.
 Robinson, Ala. Poly. R. 40: 23, 1929.
- †Diabrotica duodecimpunctata (F.) (Southern corn rootworm, *Spotted cucumber beetle)***
 Arant, Ala. Poly. R. 44: 29, 1933.
 iArant, Ala. C. 65, 1934, 10p.
 Betten, N.Y. (C.) R. 45: 116-117, 1932.

†*Diabrotica duodecimpunctata* Cont'd

- Brannen, Ark. B. 297: 46-47, 1934.
 Butcher, J. Ec. Ent. 25: 658-662, 1932.
 iCompton, Ill. C. 391: 27-28, 1932.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 56, 1933; Ext. B. 278: 47-48, 1934.
 Douglass, Rice. J. 35: 11, 1932.
 iGilbert & Popenoe, USDA FB 1371 rev.: 26, 1930.
 Gregory, Ind. Ext. Leaf. 180: 4-5, 1933.
 bJohnson, Ky. B. 306: 358-360, 1930.
 MacLeod, N.Y. (C.) R. 44, Pt. 2: 50-51, 1931.
 Marlatt, USDA Ent. R. f. 1930, 27; R. f. 1931, 36.
 iMilord, Rev. de Agr. Cuba 12(4): 38, 1930.
 Richardson & Glover, J. Ec. Ent. 25: 1176-1181, 1932.
 biRobinson & Arant, J. Ec. Ent. 24: 839-843, 1931.
 Smith & Allen, J. Ec. Ent. 24: 1077-1079, 1931; 25: 53-57, 1932.
 Snapp, USDA FB 1557, rev.: 34-35, 1931.
 Stanley, J. Ec. Ent. 24: 1311, 1931.
 Stuckey, Ga. R. 46: 39, 1934.
 Sweet, J. Ent. & Zool. 22: 93, 1930.
 iWebster, Wash. Ext. B. 186: 6-7, 1934.
Diabrotica longicornis (Say) (Corn root-worm)*
 Metcalf, N.C. R. 52: 117-118, 1929; R. 53: 154, 1930.
 Mumford, Ill. R. 43: 137-138, 1930; R. 46: 138, 1933.
Diabrotica longicornis—Rotation of crops
 biBigger, J. Ec. Ent. 25: 196-199, 1932.
 iMumford, Ill. R. 44: 139-140, 1931; R. 45: 127-129, 1932.
Diabrotica melanocephala, see *Diabrotica vittata*
Diabrotica soror Lec. (Western spotted cucumber beetle)*
 iCarpenter, Nature Mag. 15: 171-172, 1930.
 Jardine, Oreg. Bien. R. f. 1928-30: 88.
 bLarson & Hinman, J. Ec. Ent. 25: 972, 1932.
 Merrill, Cal. R. f. 1928-29: 74, 1930.
 Mote, Oreg. St. Hort. Soc. R. 24: 90, 1932.

Mote & Thompson, Pac. Sci. Cong. 5, P. 5: 3411-3417, 1934.

bQuayle, Cal. B. 542: 57, 1932.

Diabrotica spp.

Metcalf, N.C. R. 54: 107, 1931.

iSanderson, Ins. Pests Farm, ed. 3: 132-135, 1931.

Skinner & Reed, Ind. R. 45: 35, 1932.

Hort. n.s. 9: 310, 1931.

Diabrotica trivittata (Mann.) (Western striped cucumber beetle)*

Merrill, Cal. R. f. 1928-29: 74, 1930.

†*Diabrotica vittata* (F.) (Striped cucumber beetle)*

iAmos, Purdue Agr. 26: 131, 1932.

Arterburn, Ill. St. Hort. Soc. Trans. 64: 197, 1930.

Beattie, USDA FB 1468, rev.: 22-24, 1930.

Betten, N.Y. (C.) R. 45: 116-117, 1932.

Brannen, Ark. B. 297: 98, 1934.

iBritton, Conn. B. 344: 101-102, 1933.

Brooks & McDowell, Tex. C. 70: 12, 1934.

Butcher, J. Ec. Ent. 25: 658-662, 1932.

iCaesar, Ont. Dept. Agr. B. 359: 44-46, 1931.

iCocks, Conn. (Storrs) Ext. B. 185: 5, '33.
 Compton, Ill. St. Hort. Soc. Trans. 64: 427-428, 1930.

iCompton, Ill. C. 391: 26-27, 1932.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 54-55, 1933; Ext. B. 278: 46-47, 1934.

Crothwait, Peninsula Hort. Soc. Trans. 46: 16-17, 1932.

Davis, Ind. Acad. Sci. P. 39: 296, 1930.

Doane, Common Pests: 208, 1931.

iDustan, Can. Dept. Agr. Ent. B. 32: 56, 1932.

Edmond et al, Mich. Sp. B. 193: 47-48, 1930.

Friend, Conn. Veg. Grow. Assoc. R. 20: 69-70, 1933.

Friend, N.H. Hort. Soc. R. Meet. Manchester, Dec. 1932: 69-70.

iGilbert & Popenoe, USDA FB 1371 rev.: 24-25, 1934.

iHerrick, N.Y. Dept. Agr. & Markets B. 240: 63-64, 1930.

iJewett, Ky. Ext. C. 262, 1932, 8p.

bJohnson, Ky. B. 306: 358-360, 1930.

- Lobdell, Fla. R. f. 1933: 171.
 MacLeod, N.Y.(C.) R. 44, Pt. 2: 50-51, 1931.
 Mann, N.Y. (C.) R. 43 Pt. 2: 41-42, 1931.
 biMex. Agr. & Fomento, Principales Plagas: 184, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.: 55, 1933.
 Parks, Ohio, Veg. Grow. Assoc. P. 16: 166, 1931.
 iPettit, Mich. Ext. B. 117: 11, 1931.
 R.C., Rur. N.Y. 89: 169, 1930.
 iSanderson, Ins. Pests Farm, ed. 3: 228-231, 1931.
 Schermerhorn, Ohio, Veg. Grow. Assoc. P. 16: 80, 1931.
 Scholl, Okla. Ext. News 13(5): 2, 1932.
 Skinner, Ind. R. 46: 26, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 67, 1933; R. 65: 116, 1934.
 iWatson, Fla. B. 232: 66-68, 1931.
 iWatson & Berger, Fla. Ext. B. 67: 122-123, 1932.
Diabrotica vittata—Hibernation
 Haseman, J. Ec. Ent. 24: 486-490, '31.
 Herrick, Rur. N.Y. 90: 27, 1931.
 Ritcher, J. Ec. Ent. 25: 935-936, 1932.
Diabrotica vittata and sheep manure
 Hart, Market Grow. J. 52: 94, 1933.
Diacamma—Vestigial wings
 biTulloch, Ann. Ent. Soc. Amer. 27: 273-277, 1934.
Diachasma fullawayi
 bMason, J. Ec. Ent. 27: 891-897, 1934.
Diachasma tryoni
 Smith, Diamond Walnut News, 13(6): 5, 1931.
 Swezey, Hawaiian Ent. Soc. P. 8: 377, 1934.
Diachlorus ferrugatus
 Bequaert, J. N.Y. Ent. Soc. 39: 552-553, 1931.
Diachus auratus
 Illingworth, Hawaiian Ent. Soc. P. 7: 359, 1931; P. 8: 380, 1934.
Diacrisia (Spilarctia) infernalis
 bClausen, USDA C. 168: 22, 1931.
Diacrisia virginica (F.) (Yellow woolly bear)*
 bBentley & Bartlett, Tenn. Pl. Dis. Cont. B. 57: 45, 1931.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 12, 1934.
 O'Byrne, Can. Ent. 64: 239, 1932.
Diaditus latulus
 nBarber, Ent. Amer. 10 n.s.: 221-222, 1930.
Diaeretus oregmae
 nGahan, Ann. Ent. Soc. Amer. 25: 736-737, 1932.
Diaeretus rapae
 Swezey, Hawaiian Ent. Soc. P. 7: 369, 1931.
Dialeurodes chittendeni
 Fleury, Cal. Agr. Mo. B. 23: 486, 1934.
 McCubbin, J. Ec. Ent. 27: 728, 1934.
 †**Dialeurodes citri** Ashm. (Citrus white-fly)*
 Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(5): 60, 1931.
 iBerger, Cal. Agr. Mo. B. 19: 259-261, 1930.
 Berger, Cit. Ind. 13(9): 14, 1932.
 DeBusk, Fla. Coop. Ext. R. f. 1931: 65-66, 1932.
 Essig, Hist. of Ent.: 156-163, 1931.
 Essig, J. Ec. Ent. 25: 1207-1208, 1932.
 Hill, Yothers & Miller, Fla. Ent. 18: 1-4, 1934.
 Mackie, Cal. Agr. Mo. B. 18: 754-755, 1929; B. 19: 836-838, 1930; B. 20: 599-612, 1931; B. 23: 397-398, 1934.
 iMackie, Cit. Leaves 11(11): 3-4, (12): 7-8, 26, 1931.
 biMex. Agr. & Fomento, Principales Plagas: 93, 1930.
 Morrill, Cal. Cit. 17: 132, 164, 1932.
 iMoulton, Cal. Cit. 17(1): 20-22, 1931.
 Moulton, Cal. Agr. Mo. B. 20: 752-753, 1932.
 Newell, Fla. St. Pl. Bd. Bien. R. 10: 25, 1934.
 bQuayle, Cal. B. 542: 51-52, 1932.
 Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 18; R. f. 1932: 5.
 iSanderson, Ins. Pests Farm, ed. 3: 463-464, 1931.
 Watson, Fla. B. 429 rev., 1931, 2p.
 Watson, Cit. Ind. 13(10): 26, 1932.
 iWatson & Berger, Fla. Ext. B. 67: 48-53, 1932.
 Woglum, Cal. Cit. 17(1): 22, 26, 1931.
 Wood, Cal. Cult. 77: 298, 1931.

- †*Dialeurodes citri* Ashm. *Cont'd*
 Yothers & Miller, Fla. St. Hort. Soc. P. 46: 48-52, 1933.
 Yothers & Miller, Cit. Ind. 15(1): 7, 1934.
- Dialeurodes citri*—Green-houses
 Wallace, Ind. YB f. 1930: 479-480.
- Dialeurodes citri*—Quarantine
 Fleury, Cal. Agr. Mo. B. 22: 527, 1933.
 Fleury, Cal. Agr. Mo. B. 23: 483, 1934.
 J. Ec. Ent. 26: 521, 1933.
- Dialeurodes citrifolii* (Morg.) (Cloudy-winged whitefly)*
 Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(5): 59-60, 1931.
 Hill, Yothers & Miller, Fla. Ent. 18: 1-4, 1934.
 iWatson & Berger, Fla. Ext. B. 67: 53-55, 1932.
- Dialeurodes* spp.
 Jacobson, Cal. Agr. Mo. B. 19: 828, '30.
- Diallagma angustiorata*
 iSmith, J. Kans. Ent. Soc. 7: 46, 1934.
- Dialytes striatulus*
 Sim, J. N.Y. Ent. Soc. 38: 143-144, '30.
- *Diamondback moth, *see* *Plutella maculipennis* (Curt.)
- Diaphidid simplex*
 Riley & Johannsen, Med. Ent.: 171, 1932.
- Dianthidium parvum*
 Schwarz, Amer. Mus. Nov. 743: 4-6, 1934.
- Dianthidium pudicum*
 Hicks, Can. Ent. 63: 173, 1931.
 Schwarz, J. N.Y. Ent. Soc. 38: 13, 1930.
- Dianthidium ulkei*
 Hicks, Ent. News 44: 75-78, 1933.
- Diaperastiscus erythrocephalus*
 Rehn, Trans. Amer. Ent. Soc. 59: 9-10, 1933.
- Diaphania (Cirrhochrista) brizoalis*
 bClausen, USDA C. 168: 33, 1931.
- Diaphania cyanomichla*
 Swezey, Hawaiian Ent. Soc. P. 8: 218, 1933.
- Diaphania hyalinata* (L.) (Melonworm)*
 Britton, Conn. B. 354: 130, 1933.
 Caffrey, Md. Agr. Soc. R. 19: 277, '34.
 Jones, Tex. R. 46: 52, 1933.
 Watson, Fla. B. 232: 66, 1931.
- Watson, Fla. Grow. 39(5): 26, 1931.
- Diaphania nitidalis* (Stoll) (Pickleworm)*
 bBritton, Conn. B. 338: 584-585, 1932;
 B. 344: 101, 1933.
 Brunson, S.C. Wkly. News Notes, 18: 40, 1930.
 Burdette, N.J. St. Hort. Soc. P. f. 1931: 155.
 Caffrey, Md. Agr. Soc. R. 19: 277, 1934.
 Friend, Conn. Veg. Grow. Assoc. R. 19: 29-30, 1932.
 McGinty, Market Grow. J. 50: 98, '32.
 iSanderson, Ins. Pests Farm, ed. 3: 231-233, 1931.
 Sein, J. Ec. Ent. 24: 762, 1931.
 iWatson, Fla. B. 232: 63-66, 1931.
 Watson, Fla. Grow. 39(5): 26, 1931.
- Diapheromera femorata* (Say) (Walking-stick)*
 Britton, Conn. B. 327: 576-577, 1931.
 Graham, Sci. News Letter, 21: 197, '32.
 iMcDaniel, Mich. Sp. B. 243: 5-6, 1933.
- Diapheromera* spp.
 Hebard, Trans. Amer. Ent. Soc. 60: 281-283, 1934.
- Diapheromera veliei*
 iHebard, Ent. News, 42: 65-67, 1931.
 Rodeck, Ent. News 41: 2, 1931.
- Diaphnidia crockeri*
 nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 29-30, 1933.
- Diaphnidia pellucida*
 Gilliatt, Ent. Soc. Ont. R. 61: 11, 1931.
 Weir, Can. Min. Agr. R. f. 1930/31: 140.
- Diaphorus* spp.
 nVan Duzee, Can. Ent. 62: 86, 1930.
 nVan Duzee, BAMNH 61: 171-172, '31.
 inVan Duzee, Amer. Mus. Nov. 484: 3-6, 1931.
 nVan Duzee, Amer. Mus. Nov. 521: 4-8, 1932.
 inVan Duzee, Amer. Mus. Nov. 483: 14-15, 1931.
 Van Duzee, Ent. News 43: 183-187, 1932.
 nVan Duzee, Amer. Mus. Nov. 569: 12-13, 1932.
- Diaprepes abbreviatus*
 Holloway, Facts about Sugar 26: 302, 1931.

- biWolcott, Ec. Ent. of West Indies: 133-142, 1933.
- biWolcott, P.R. Dept. Agr. J. 17: 257-264, 1933; 18: 417-428, 1934.
- Diaprepes abbreviatus**—Biological control
Lit. Dig. 116(26): 18, 1933.
- Diaprepes abbreviatus**—Oviposition
Wolcott, J. Ec. Ent. 26: 1172-1173, '33.
iWolcott, Lit. Dig. Dec. 23, 1933, 18.
- Diaprepes abbreviatus**—Parasites
Colon, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1931-1932: 97.
Dominguez, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1932/1933: 145-147.
bWolcott, Ec. Ent. of West Indies: 140-141, 1933.
- Diaprepes esuriens**
Holloway, Facts about Sugar 26: 302-303, 1931.
- Diaprepes famelicus**
Holloway, Facts about Sugar 26: 302, 1931.
- Diaprepes spengleri**
Leonard, P.R. Dept. Agr. J. 16: 123, 1932.
Rios & Reinat, P.R. Ins. C. 93: 30, 1931.
- Diapriidae**
Whittaker, P. Ent. Soc. Wash. 33: 176-182, 1931.
- Diarisia rubifera**
Phipps, Maine B. 356: 161-162, 1930.
- Diarthronomyia hypogaea** (*Chrysanthemum gall midge*)*
bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 36-38, 1931.
Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 33-35, 1930.
Essig & Hoskins, Cal. Ext. C. 87: 40, 1934.
iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 57-58, 1934.
Haseman & Jones, Mo. B. 342: 23-24, 1934.
McDaniel, Mich. Sp. B. 214: 83-85, 1931.
Flor. Exch. 80(13): 25, 1932.
- Diasemopsis spp.**
Curran, Amer. Mus. Nov. 463: 1-17, 1931.
nCurran, Amer. Mus. Nov. 464: 8-17, 1931.
- Diaspinæ**
bFullaway, Hawaiian Ent. Soc. P. 8: 93-110, 1932.
biMetcalf & Hockenyos, Ill. St. Acad. Sci. Trans. 22: 166-184, 1930.
- Diaspis boisduvalii**
McDaniel, Mich. Sp. B. 214: 60-61, '31.
- Diaspis carueli**
Bailey, Cult. Conifers North Amer.: 352-353, 1933.
Hedrick, N.Y. (Gen.) R. 51: 61-62, '32.
Ladd, N.Y. (Gen.) R. 52: 64, 1933.
McDaniel, Mich. Quar. B. 16: 246, '34.
bSoraci, N.J. Dept. Agr. C. 243: 24, '34.
Nat. Nursery. 41(10): 4, 1933.
- Diaspis echinocacti** (Bouché) (*Cactus scale*)*
McDaniel, Mich. Sp. B. 214: 61, 1931.
- Diaspis pircicola**, see *Epidiaspis pircicola*
- Diatata albibasis**
Cockerell, P. Ent. Soc. Wash. 33: 202, 1931.
nMalloch, PUSNM 78(15): 30-31, 1931.
- Diatata ornata**, *peruviana*, *polita*
Malloch, PUSNM 78(15): 30-31, 1931.
- Diatraea busckella rosa**, *considerata*
nHeinrich, PUSNM 79(13): 3-4, 1931.
- Diatraea crambidoides** (Grote) (*Southern cornstalk borer*)*
iAinslie, USDA FB 1025 rev. 1933, 6p.
iArant, Ala. C. 65: 5, 1934.
Barber, J. Ec. Ent. 26: 1174, 1933.
Cartwright, S.C. R. 43: 71-73, 1930; 44: 64-66, 1931; 45: 66-67, 1932; 46: 72, 1933; 47: 56-57, 1934.
biCartwright, S.C. B. 294, 1934, 32p.
Crosthwait, Peninsula Hort. Soc. Trans. 46: 17, 1932; 47: 76, 1933.
iMilord, Rev. de Agr. Cuba 12(4): 39-43, 1930.
iSanderson, Ins. Pests Farm ed. 3: 288-290, 1931.
iAla. Leaf. 9: 2-3, 1934.
- Diatraea crambidoides**—Parasites
Barber, J. Ec. Ent. 26: 1174, 1933.
- Diatraea grandiosella** Dyar (*Southwestern corn borer*)*
biDavis et al, USDA TB 388, 1933: 61p.
Marlatt, USDA Ent. R. f. 1931: 27.
Marlatt, USDA Ent. R. f. 1933: 18.
Todd & Thomas, J. Ec. Ent. 23: 118-121, 1930.

Diatraea grandiosella—Parasites

iDavis et al, USDA TB. 388: 44-49, '33.

Diatraea lineolatabScaramuzza, Assoc. Tecn. Azucar.
Cuba P. 6: 90, 1932.**†Diatraea saccharalis (F.) (Sugarcane borer)***

Box, Facts about Sugar 27: 398, 1932.

Cleare, Facts about Sugar 27: 454, '32.

Douglas, La. Bien. R. f. 1930-1931: 13.

Hinds, Sugar B. 9(13): 1-2; (14): 1;

(15): 4; (16): 6; (17): 9-10; (21): 5-8,

1931; 10(8): 1; (12): 1-2; (13): 5-7;

(17): 1-3; (18): 2-3, 5, 1932; 11(17):

5-6; 12(7): 3-5; (17): 4-6, 1933;

12(19): 5-6, 1934.

Hinds, Internat. Soc. Sugar Cane.

Tech. Cong. 4, B. 114 [P. Pt. 2],

1932. 5p.

Hinds & Osterberger, J. Ec. Ent. 26:

972-973, 1933.

Hinds & Osterberger, La. B. 240: 1933,

11p.

Hinds & Osterberger, Sugar. B. 11(24):

4, 6, 1933.

Hinds et al, La. R. f. 1929-31: 84-86.

Holloway, Facts about Sugar 25: 829,

1930; 26(2): 70, 1931.

Holloway, Sugar B. 11(6): 4-5, 1932.

Holloway & Rand, J. Ec. Ent. 25: 463-

464, 1932.

Kuntz, P.R. Ins. C. 98: 14-16, 1932.

Leonard, P.R. Dept. Agr. J. 16: 138, '32.

Leonard & Sein, Internat. Soc. Sugar

Cane Tech. Cong. 4, B. 92: P. Pt. 2,

1932, 2p.

Leonard & Sein, Facts about Sugar 27:

300, 1932.

Lobdell, Fla. R. 45: 160, 1931.

Loftin, Asoc. Tecn. Azucar. Cuba P. 4:

52-55, 1930.

Marlatt, USDA Ent. R. f. 1931: 29-30;

R. f. 1933: 16.

Pemberton, Hawaiian Sugar Pl. Assoc.

P. 51: 586-589, 1932; 52: 131, 1933.

Plank, Facts about Sugar 25: 575-576,

1930.

Plank, Asoc. Tecn. Azucar. Cuba P. 5:

135-137, 1931.

bPlank, Internat. Soc. Sugar Cane

Tech. Cong. 4, B. 113 [P. Pt. 2], 1932,

8p.

Rosenfeld, Sugar B. 9(13): 8-9, 1931.

Stoutamire, Fla. Dept. Agr. B. 53, n.s.:

22, 1932.

Wolcott, Can. Field-Nat. 46: 174, 1932.

Wolcott, Facts about Sugar, 27: 300,

1932.

Wolcott, Internat. Soc. Sugar Cane

Tech. Cong. 4, B. 87: [P. Pt. 2] 1932,

3p.; B. 88: [P. Pt. 2] 1932, 2p.

biWolcott, Ec. Ent. of W. In.: 166-192,

1933.

Diatraea saccharalis—Cane trash burning

Wolcott, P.R. Dept. Agr. J. 17: 197-

198, 1933.

Wolcott, Sugar B. 12(9): 4-5, 1934.

Diatraea saccharalis—Parasites

Box, Internat. Soc. Sugar Cane Tech.

Cong. 4, B. 122: [P. Pt. 2] 1932, 6p.

Dowell, La. R. f. 1931-33: 10-12.

Edwards, Guam R. f. 1930/1932: 8, '33.

Flanders, J. Ec. Ent. 23: 603-606, 1930.

Hinds, Sugar B. 11(1): 7, 1932.

biHinds et al, La. B. 235, 1933, 36p.

Hinds, et al, J. Ec. Ent. 27: 788-795,

1934.

Hinds et al, Sugar B. 12(20): 5-6, 1934.

Holloway, Sugar B. 8(11): 2, 1930;

12(6): 3-4, 1933.

Holloway et al, Sugar B. 10(22): 5-7,

1932.

bHolloway et al, J. Ec. Ent. 25: 68-71,

1932.

Jaynes, Assoc. South. Agr. Work. P.

31: 420, 1930.

bJaynes, J. Ec. Ent. 23: 676-680, 1930.

Jaynes, Grace Log 14: 108-109, 1931.

Jaynes, Facts about Sugar 27: 179, '32.

Jaynes, J. Ec. Ent. 25: 64-68, 1932.

Jaynes, Sugar B. 10(13): 4-5; (18): 6-7,

1932.

biJaynes, USDA TB 363: 1933. 26p.

bPlank, Internat. Soc. Sugar Cane Tech.

Cong. 4, B. 113: [P. Pt. 2]: 5 1/2, 1932.

Roney, J. Ec. Ent. 23: 286-287, 1930.

bScaramuzza, Asoc. Tecn. Azucar. Cuba

P. 4: 59-63, 1930; P. 6: 87-93, 1932;

P. 7: 60-64, 1933.

iScaramuzza, Rev. de Agr. Cuba 14(4):

58-60, 1932.

Scaramuzza, Facts about Sugar 28:

102; 1933.

- Scaramuzza, Cuba Agr. 1(7): 16-17, 1934.
- bScaramuzza, Rev. de Agr. Cuba 15(6): 13-17, 1934.
- Pop. Mech. 56: 437, 1931.
- Sugar B. 9(20): 2-3, 1931.
- Diatraea saccharalis**—Parasites—**Trichogramma minutum**
- DeGravelles, Sugar B. 11(17): 3-4, '33.
- Hinds, Sugar B. 10(6): 3-4, 1931.
- Hinds, Facts about Sugar 27(3): 137, 1932.
- biHinds, La. B. 235, 1933, 36p.
- Hinds, Sugar B. 11(20): 2-3, 1933.
- Hinds & Osterberger, Facts about Sugar 27: 300, 1932.
- Hinds & Osterberger, J. Ec. Ent. 25: 57-64, 1932; 26: 758-767, 1933.
- Hinds & Osterberger, Sugar B. 10(24): 10, 1932.
- Hinds et al, Sugar B. 11(7): 2, 4, 1933.
- Hinds et al, Facts about Sugar 28: 102, 1933.
- Hinds et al, La. B. 248, 1934, 34p.
- Holloway, Facts about Sugar 25: 745, 1930.
- bHolloway, J. Ec. Ent. 26: 974-977, '33.
- Osterberger, Sugar B. 10(23): 5-6, '32.
- Osterberger & Dugas, Sugar B. 10(21): 2-3, 1932.
- Osterberger & Hinds, Sugar B. 10(23): 5-7, 1932.
- Tucker, Facts about Sugar 26(2): 86, 1931.
- Diatraea saccharalis** and Red-rot disease
- Times & Edgerton, Internat. Soc. Sugar Cane Tech. Cong. 4, B 26 [P. Pt. 2]: 1, 1932.
- Diatraea saccharalis** and Sugar cane mosaic
- Agate, Rev. de Agr. Cuba 14(6): 15, '32.
- Diatraea** spp.
- bHinds & Osterberger, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 52 [P. Pt. 2] 1932, 6p.
- bLeonard, Rev. Agr. P.R. 25: 63, 1930.
- biMex. Agr. & Fomento. Principales Plagas: 146-147, 1930.
- Diatraea striatalis**
- Holloway, Facts about Sugar 25: 830, 1930.
- Diatraea zeacolella**, *see* **Diatraea crambidoides**
- Dibrachoides dynastes**
- bChamberlin, P. Ent. Soc. Wash. 35: 106, 1933.
- Essig & Michelbacher, Cal. B. 567: 70-71, 1933.
- biSmith, Ann. Ent. Soc. Amer. 23: 577-593, 1930.
- Dibrachoides** spp.
- bFlanders, Ann. Ent. Soc. Amer. 28: 438-444, 1934.
- Dibrachys boucheanus**
- biDriggers, J. N.Y. Ent. Soc. 40: 493-494, 1932.
- Garman, Conn. B. 360: 476, 1934.
- biGarman & Brigham, Conn. B. 356: 77-78, 1933.
- Keifer & Jones, Cal. Agr. Mo. B. 22: 388, 1933.
- Simmons & Ellington, USDA TB 351: 31, 1933.
- Dicaelotus pacificus**
- Keifer & Jones, Cal. Agr. Mo. B. 22: 387, 1933.
- Dicaelus darlingtoni**
- nFall, Psyche 39: 19-20, 1932.
- Dicaelus** spp.
- Fattig, Can. Ent. 65: 190-191, 1933.
- Dicerca californica**
- Van Dyke, Ent. News 45: 91, 1934.
- Dicerca divaricata**
- Hutson, J. Ec. Ent. 25: 1026, 1932.
- Knull, Ent. News 43: 45, 1932.
- Pettit, Mich. R. 46: 230, 1933.
- Dicerca mutica**
- Van Dyke, Ent. News 45: 91, 1934.
- Dicerca pectorosa**
- Chamberlin, J. Ec. Ent. 25: 833, 1932.
- Dicerca sexualis, tenebrica**
- Van Dyke, Ent. News 45: 90, 91, 1934.
- Diceroprocta apache**
- Beamer, J. N.Y. Ent. Soc. 38: 296, '30.
- Davis, J. N.Y. Ent. Soc. 40: 247-248, 1932.
- Moulton, Cal. Agr. Mo. B. 20: 749, '32.
- Diceroprocta** spp.
- inDavis, J. N.Y. Ent. Soc. 38: 61-63, 1930; 40: 254, 1932; 42: 44-47, 1934.
- bWymore, J. Ec. Ent. 27: 885, 887, 1934.

- Dichaetoneura leucoptera**
iGreene, P. Ent. Soc. Wash. 36: 29-30, 1934.
- Dichaetothrips claripennis**
nMoulton, Hawaiian Ent. Soc. P. 8: 503, 1934.
- Dichelacera analis, submarginata**
Dunn, Psyche 41: 172-173, 1934.
- Dichelonyx arizonensis**
inSaylor, Can. Ent. 65: 158-159, '33.
- Dichelonyx arizonica**
inSaylor, Can. Ent. 65: 132, 1933.
- Dichelonyx columbiana, deserta**
nHopping, Can. Ent. 63: 236-238, 1931.
- Dichelonyx muscula**
Sweet, J. Ent. & Zool. 22: 99, 1930.
- Dichelonyx sp.**
iSim, USDA C 334: 7, 1934.
- Dichelonyx vandykei**
Saylor, Can. Ent. 64: 284-285, 1932.
- Dichocrocis punctiferalis**
bClausen, USDA C 168: 27, 1931.
- Dichomeris ligulella Hbn. (Palmerworm)***
Hall, Ent. Soc. Ont. R. 61: 38-40, 1931.
iQuaintance & Siegler, USDA FB 1270, rev.: 63-64, 1931.
- Dichomeris marginella**
Hamilton, N.J. R. 51: 185-186, 1930.
Hamilton, J. Ec. Ent. 24: 166, 1931.
Hamilton, N.J. Dept. Ent. R. f. 1930: 185-186, 1931.
McDaniel, Mich. Quar. B. 16: 244-245, 1934.
Matthews, Nat. Nurseryman 42(8): 5, 1934.
biSoraci, N.J. Dept. Agr. C. 243: 58-59, 1934.
Wiley, Garden Gossip 8(1): 6, 1933.
- Dichomeris piperata**
Garcia, P.R. Ins. R. f. 1929-30: 35, '31.
Leonard, P.R. Ins. R. f. 1929-30: 119, 1931.
- Dichomeris spp.**
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 121, 1930.
Sein, Rev. Agr. P.R. 25: 91, 1930.
- Dichopetala, D. poecila**
inHebard, Trans. Amer. Ent. Soc. 58: 298-301, 1932.
- Dichoptera herbida see Taosa herbida**
- Dichrorampha dana**
McDunnough, Can. Ent. 62: 115-116, 1930.
- Dicladochaeta, D. biseriata**
nMalloch, Bernice P. Bishop Mus. B. 98: 217-218, 1932.
- Diclasiopea frontalis**
nCurran, Amer. Mus. Nov. 682: 7-8, '33.
- Dicranomyia pudicoides**
Rogers, Mich. Univ. Mus. Zool. Occ. Paper 215: 30-31, 1930.
- Dicranoctetes, D. saccharella**
inBusck, Ent. Amer. n.s. 13: 169, 1933.
- Dicranura vinula**
Poulton, Science n.s. 74: 353, 1931.
- Dicreatothrips princeps**
nHood, P. Biol. Soc. Wash. 47: 68-71, 1934.
- Dictyonerius pluricellatus**
Cresson, Trans. Amer. Ent. Soc. 56: 313-314, 1930.
- Dictyophora sororcula see Taosa sororcula**
- Dictyophorus reticulatus (Lubberly locust)**
iWatson & Berger, Fla. Ext. B. 67: 119-120, 1932.
- Dictyoplaca (Caligula) japonica**
bClausen, USDA C 168: 28, 1931.
- *Dictyospermum scale, see Chrysomphalus dictyospermi (Morg.)**
- Dictyssa mutata**
Sweet, J. Ent. & Zool. 22: 86, 1930.
- Dicyphus luridus (Large tobacco suck-fly)**
Leonard, J. Ec. Ent. 23: 640-641, 1930.
- Dicyphus minimus Uhl. (Suck-fly)***
Bruner, Rev. de Agr. Cuba 14(15/16): 94, 1933.
Clark, Tex. R. 47: 239, 1934.
Johnson, J. Ec. Ent. 23: 642, 1930.
Jones, Tex. R. 46, 49, 1933.
Lehman, N.C. R. 54: 71-73, 1931; 56: 24, 1933.
- Dicyphus physochlaenae, sengge**
inHutchinson, Conn. Acad. Arts & Sci. Mem. 10: 138-140, 1934.
- Dicyrtoma quadrangularis**
inMills, Collembola of Iowa: 106-107, 1934.
- Didineis spp.**
Malloch & Rohwer, PUSNM 77 (14): 1-7, 1930.

- Diedronotus mexicanus**
 Hebard, Trans. Amer. Ent. Soc. 58, 269-270, 1932.
- Diedronotus spp.**
 Rehn, Sci. Month. 39: 39, 1934.
- Dielis dorsata**
 Wolcott, P.R. Univ. J. Agr. 18: 440, 1934.
- *Differential grasshopper, see Melanoplus differentialis (Thos.)**
- Digger wasp, see Sphecoidea spp.**
- Digonochaeta setipennis**
 Dimick, J. Ec. Ent. 24: 962-964, 1931.
 bDimick & Mote, J. Ec. Ent. 27: 863-865, 1934.
 Glendenning, B.C. Ent. Soc. P. 28: 29-30, 1931.
 Mote, J. Ec. Ent. 24: 948-956, 1931.
 bMote, Stearns & Dimick, J. Ec. Ent. 24: 957-961, 1931.
 Weir, Can. Min. Agr. R. f. 1932, 177-178.
 J. Ec. Ent. 23: 650, 1930.
- Dikraneura spp.**
 nLawson, Can. Ent. 62: 35-42, 1930.
- Dilachnus thujafilinus**
 Burke, Cal. Agr. Mo. B. 21: 363, 1932.
 Smith, J. Kans. Ent. Soc. 5: 86, 1932.
- Dill worm, see Papilio polyxenes**
- Dilophops, D. bullatus**
 inLoomis, Smithson. Misc. Coll. 89(14): 59-62, 1934.
- Dimeragrion secundum**
 nNeedham, Amer. Mus. Nov. 664: 5, 1933.
- Dimorphomyia calliphoroides**
 Aldrich, P. Ent. Soc. Wash. 35: 168, 1933.
- Dinacoma—Revision**
 biBlaisdell, Pan-Pac. Ent. 6: 171-177, 1930.
- Dinagenia, D. apollo**
 nBanks, Amer. Acad. Arts & Sci. P. 69(1): 66-67, 1934.
- Dineutes (Cyclinus) amazonicus**
 nHatch, Univ. Okla. Biol. Surv. Pub. 2: 16-17, 1930.
- Dineutes assimilis**
 iClark, J. Expt. Zool. 58: 31-41, 1931.
 biClark, J. Expt. Zool. 66: 311-333, 1933.
 biPayne, J. Morph. 53: 547, 1932.
- Dineutes sp.**
 Torre-Bueno, Bklyn. Ent. Soc. B. 29: 119, 1934.
- *Dingy cutworm, see Feltia subgothica**
- Dinocleus pilosus**
 Keifer, Cal. Agr. Mo. B. 21: 339, 1932.
- Dinoderus minutus**
 Knull, Ent. News 45: 209, 1934.
- Dinoderus truncatus, see Prostephanus truncatus**
- Dinogamasus spp.**
 inLeVeque, Amer. Mus. Nov. 432: 1-6, 1930; 434: 1930. 19p.; 479: 1931, 14p.
 LeVeque, Science n.s., 71: 608, '30.
- Dinosalius see Monodontonyx (Dinosalius)**
- Diocalandra taitensis Guer. (Tahitian coconut weevil)***
 Bryan, Hawaiian Ent. Soc. P. 7: 380-381, 1931.
- Diocetes chilonis**
 Fullaway, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 80, 1931.
 Fullaway, Hawaiian Ent. Soc. P. 7: 351, 365, 1931.
 Swezey, J. Ec. Ent. 24: 946, 1931.
- Diocetes molestae**
 inUchida, J. Wash. Acad. Sci. 23: 148, 1933.
- Diocetes obliteratus**
 Garlic, Ent. Soc. Ont. R. 65: 111-112, 1934.
- Diodontus—Key**
 Malloch, PUSNM 82(26): 3-4, 1934.
- Diodontus occidentalis, sulcatus**
 inMalloch, PUSNM 82(26): 5-6, 1934.
- Diodyrhynchus, D. slevini**
 nMartin, Pan-Pac. Ent. 6: 129-130, '30.
- Diogmites texanus**
 nBromley, Ann. Ent. Soc. Amer. 27: 91, 1934.
- Diolcus spp.**
 Barber & Bruner, P.R. Dept. Agr. J. 16: 241-242, 1932.
- Diomorus zabriskii**
 Davidson, So. Cal. Acad. Sci. B. 30: 49, 1931.
- Diomus bruneri**
 nChapin, J. Wash. Acad. Sci. 20: 494-495, 1930.
- Dione vanillae**
 Calkins, Ent. News 43: 226, 1932.
 O'Byrne, Ent. News 43: 97-99, 1932.

- Diopsidae**
 iCurran, BAMNH 58: 179-183, 1929.
- Diopsis cruciata**
 nCurran, Amer. Mus. Nov. 710: 15-16, 1934.
- Diopsis diversipes**
 nCurran, BAMNH 58: 180, 1929.
- Diopsis globosa**
 nCurran, Amer. Mus. Nov. 492: 9-10, 1931.
- Diopsothrips, D. brunneus, flavus**
 nHood, J. N.Y. Ent. Soc. 41: 422-425, 1933.
- Diptidae**
 Forbes, J. N.Y. Ent. Soc. 39: 69-76, 1931.
- Diorymerellus laevimargo (Orchid-weevil)**
 Fullaway, Hawaiian Ent. Soc. P. 8: 388, 1934.
 Hamilton, J. N.Y. Ent. Soc. 39: 603-604, 1931.
 iHamilton, N.J. R. 52: 206-216, 1931.
 iHamilton & Henderson, Amer. Orchid Soc. B. 2: 42-50, 1933.
 Swezey, Hawaiian Ent. Soc. P. 8: 28, 1932.
- Diotrepha mirabilis—Parasites**
 Roger, Ecol. Monog. 3(1): 35, 1933.
- Diotrepha myersiana**
 nAlexander, Ann. Ent. Soc. Amer. 23: 732, 1930.
- Diphadnus appendiculatus**
 Jones & Hanson, Wash. Ext. B. 180: 7, 1933.
- Diphora nearctica**
 nWhittaker, P. Ent. Soc. Wash. 32: 74, 1930; 33: 181-182, 1931.
- Diphylostoma, D. fimbriata**
 iLinsley, Pan-Pac. Ent. 8: 109-111, '32.
- Diphylostoma linsleyi**
 nFall, Pan-Pac. Ent. 8: 160-161, 1932.
- Diphylostoma nigricollis**
 Hinton, Pan-Pac. Ent. 7: 95, 1930.
 iLinsley, Pan-Pac. Ent. 8: 110-111, '32.
- Diplocampta roederi**
 inCurran, Amer. Mus. Nov. 456: 8, 1931.
- Diplocardia verrucosa**
 Olson, Ohio J. Sci. 33: 192, 1933.
- Diplogaster aerivora**
 Cartwright, S.C. R. 43: 73, 1930.
 iSteiner, Helminth. Soc. Wash. P. 1: 56-58, 1934.
- Diplogaster americanus**
 binSteiner, J. Agr. Res. 41: 430-433, 1930.
- Diplogaster spp. and Trinidad root disease**
 Strong & Shattuck, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 394, 397, '30.
- Diplogasteroides stigmatus**
 binSteiner, J. Agr. Res. 41: 427-430, 1930.
- Diploilulus londonensis**
 MacLeod & Butcher, J. Ec. Ent. 27: 106-108, 1934.
- Diploilulus luscus**
 Keifer, Pan-Pac. Ent. 8: 60, 1931.
- Diplolepis capronae**
 nWeld, P. Ent. Soc. Wash. 32: 29, 1930.
- Diploneura (Aenictomyia) chapmani**
 inBrues, Psyche 37: 164-166, 1930.
- Diploneura (Dohrniphora) myersi**
 nBrues, Psyche 39: 134-136, 1932.
- Diploneura nitidula**
 Mullen, Science n.s. 79: 294, 1934.
- Diploneura (Diploneura) scoparia**
 nBrues, Psyche 39: 139-141, 1932.
- Diplopoda**
 Silvestri, Amer. Mus. Nov. 565, 1932, 4p.
- Diptoptera dytiscoides**
 Pemberton, Hawaiian Ent. Soc. P. 8: 509, 1934.
- Diplosis morivorella**
 bClausen, USDA C. 168: 32, 1931.
- Diplosis quadrifasciata**
 bClausen, USDA C. 168: 32, 1931.
- Diplosis spp.**
 Compere & Smith, Hilgardia 6: 608-609, 1932.
- Diplosis violicola**
 McDaniel, Mich. Sp. B. 214: 87, 1931.
- Diplotaxis spp.**
 nFall, J. N.Y. Ent. Soc. 40: 192-197, '32.
 iSim, USDA C. 334: 7, 1934.
- Diplothemnus, D. insolitus, insularis**
 inChamberlin, Ann. Ent. Soc. Amer. 26: 264-268, 1933.
- Dipoena lineatipes**
 nBryant, B. Mus. Comp. Zool. 74(6): 174-175, 1933.
- Dipping vats**
 Ballester, P.R. Dept. Agr. & Comm. Inf. Ann. Span. ed. f. 1934/5: 230-237.
 iButterfield, USDA YB f. 1932: 122-124.
 iMartin, Vet. Med. 25: 316-319, 1930.

- Diprion polytomum** (Htg.) (European spruce sawfly)*
 iBalch, Can. Dept. Agr. Ent. Br. Div. For. Ins. Sp. C. 1934, 4p.
 Balch, N.S. Dept. Land & For. R. f. 1933; 28-29, 1934.
 iBalch, Pulp & Paper Mag. Can. 35: 680, 1934.
 Balch & Simpson, Can. Ent. 64: 162-163, 1932.
 Balch, Simpson & Prebble, Ent. Soc. Ont. R. 64: 57-59, 1933.
 Hyslop, J. Ec. Ent. 27: 565, 1934.
 Swaine, For. Chron. 9(4): 13-14, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 74, 1933; R. 65: 122, 1934.
 Twinn, Que. Soc. Prot. Pl. R. 25/26: 62, 1934.
 Weir, Can. Min. Agr. R. f. 1932: 168; R. f. 1933/34: 56-57.
 J. Ec. Ent. 27: 551, 1934.
- Diprion polytomum**—Parasites
 Swaine, Pac. Sci. Cong. 5, P. 5: 3390-3391, 1934.
 J. Ec. Ent. 26: 743, 1933.
- Diprion simile** (Htg.) (Introduced pine sawfly)*
 iPierson, Field Book of Destruct. For. Ins. ed. 2: 15, 1932.
 biSoraci, N.J. Dept. Agr. C. 243: 46, '34.
- †Dips for cattle**
 Arias, Rev. de Agr. Cuba 15(6): 36-39, 1934.
 Butler, Vet. Med. 25: 324-325, 1930.
 Frazer, Soap 7(10): 101, 103, 111, 1931.
 iGray, Kans. Live Stock San. Comm. Bien. R. 14: 139-141, 1933.
 Hearle, Can. Dept. Agr. Pam. 147: n.s.: 8-11, 1932.
 Mohler, USDA BAI R. f. 1934: 16-17.
 MacKellar, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash. D.C., Doc. Material 2: 146-147, 1930.
 Schwartz, USDA C. 148: 49-54, 1930.
 bToomey, Ann. Int. Med. 5: 1517-1518, 1932.
 Valdés, Rev. de Agr. Cuba 13(12): 55, 1932.
 USDA BAI SRA 297, 1932. 12p.
- Dips for foxes**
 Hanson, Black Fox Mag. 16(4): 10, 12, 1932.
- Dips for goats**
 Babcock, Tex. R. 47: 226-227, 1934.
- Dips for hogs**
 iGraham, Successful Farm. 29(8): 8, 38, 1931.
 Kinsley, Vet. Med. 29: 469, 1934.
 iPatterson, Breeder's Gaz. 96(2): 26, '31.
 iStouder, Iowa Ext. B. 165: 3-4, 1930.
- Dips for poultry**
 Carpenter, Cal. Cult. 77: 626, 1930.
- Dips for sheep**
 iHeguito & San Julian, La Hacienda, 29: 52-54, 1934.
 iLa Voi, Mich. Farm. 177: 5, 16, 1931.
 Mercer, Kans. Live Stock San. Comm. Bien. R. 14: 90-94, 1933.
 J. Agr. & Hort. 36(12): 3, 1933.
 Maritime Farm. 38(4): 15, 1932; (19): 15, 1933.
- Dipseudopsis spectabilis**
 inBanks, Psyche, 38: 69, 1931.
- Dipsosphesia mellinipennis**, *see* **Conopia mellinipennis**
- Diptera**
 Aldrich, P. Ent. Soc. Wash. 33: 116-121, 1931; 35: 165-170, 1933.
 Aldrich, PUSNM 81(9): 1932, 28p.
 nCurran, Amer. Mus. Nov. 492, 1931, 13p.; 526, 1932, 13p.; 534, 1932, 15p.; 682, 1933. 11p.
 Curran, Can. Ent. 63: 249-254, 1931.
 biCurran, Fam. and Genera of North Amer. Diptera, 1934, 512p.
 Knowlton & Janes, Utah Acad. Sci. P. 8: 147-148, 1931.
 iMetcalf & Flint, Fund. of Ins. Life: 330-363, 1932.
- Diptera—Acalyptrata**
 Aldrich, Hawaiian Ent. Soc. P. 7: 395-399, 1931.
- Diptera—Canada**
 Curran, Can. Ent. 63: 93-98, 1931.
- Diptera—Colorado**
 James, J. N.Y. Ent. Soc. 40: 435-438, 1932.
 James, Col.-Wyo. Acad. Sci. J. 1(5): 84-85, 1933.
- Diptera—Economic importance**
 Mann, N.Y. (C) R. 43, Pt. 2: 43-44, 1931.
- Diptera—Harriman Interstate Park, N.Y.**
 iCurran, BAMNH 61: 21-112, 1931.

Diptera—Hawaii

Bryan, Hawaiian Ent. Soc. P. 7: 335-336, 401-404, 1931; 8: 399-468, '34.

Diptera—Larvae

Keifer, Cal. Agr. Mo. B. 19: 574-581, 1930.

Diptera—Nematocera

Esaki, Bklyn. Ent. Soc. B. 27: 183-184, 1932.

Diptera—Puerto Rico

iCurran, Amer. Mus. Nov. 456, 1931. 23p.

Diptera—Quarantine

Whitney, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 93-94, 1931.

Diptera—Quebec

Petch, Que. Soc. Prot. Pl. R. 25/26: 88-90, 1934.

Winn & Beaulieu, Que. Soc. Prot. Pl. R. 24: Sup., 1932, 100p.

Diptera—Sheep pasture

Wilson, J. N.Y. Ent. Soc. 40: 77-93, '32.

Diptera—Synonymy

Aldrich, P. Ent. Soc. Wash. 32: 25-28, 1930.

Diptera—Templeton Crocker Expedition

iCurran, Cal. Acad. Sci. P. ser. 4, 21: 147-172, 1934.

Diptera—Timagami, Canada

Browne, Can. Ent. 66: 244-252, 1934.

Diptera—Utah

Knowlton, Can. Ent. 63: 152-157, '31.

Knowlton, Janes & Thomas, Utah Acad. Sci. P. 10: 155-157, 1933.

Knowlton & Thomas, Utah Acad. P. 11: 246, 1934.

Stanford, Pan-Pac. Ent. 7: 99-100, '31.

Diptera and disease

biMatheson, Med. Ent.: 174-187, 1932.

Diptera from animal excrement

Roberts, J. N.Y. Ent. Soc. 42: 261-262, 1934.

Discellius zonalis

iPena, La Hacienda, 25: 74, 1930.

Discochaeta braueri

nTownsend, J. N.Y. Ent. Soc. 40: 479, 1932.

Discomyza maculipennis

Bryan, Hawaiian Ent. Soc. P. 8: 390, 1934.

Swezey, Hawaiian Ent. Soc. P. 8: 386, 1934.

Discophellus porsena

inBell, Bklyn. Ent. Soc. B. 29: 94-95, '34.

Discotenes nigrotuberculata

Pierce, PUSNM 77(17): 4-5, 1930.

Diseases of insects

Baker, Nat. Pecan Grow Assoc. P. 30: 50, 1931.

Brown, J. Ec. Ent. 23: 145-146, 1930.

Glaser & Lacaille, Amer. J. Hyg. 20: 454-464, 1934.

Payne, Ent. News 44: 22, 1933.

biPoos & Wheeler, J. Ec. Ent. 27: 58-69, 1934.

Sanderson, Ins. Pests Farm, ed. 3: 33-34, 1931.

Tisdale, Fla. R. f. 1930: 96.

Disinfectant committee—Report

Bell, Soap 9(6): 99, 1933.

Dougan, Soap 9(1): 88-90, 1933.

Disinfectants

Baird, Soap 9(2): 89, 1933.

Dorset, USDA FB 926, rev. 1931. 10p.

Dreyfus, Soap 9(1): 90, 1933.

Dreyfus, Soap 9(6): 99, 101, 1933.

Hadley & McCulloch, Wis. Ext. C. 256, 1933, 12p.

Klarmann, Soap 9(2): 87-89, 1933.

bRuehle & Brewer, Soap 8(2): 99-103, 119-121, 1932.

Disinfection of stables

iPope, USDA FB 954, rev. 1932, 12p.

Disognus torvus

nWhittaker, P. Ent. Soc. Wash. 32: 68-69, 1930.

Disonycha arizonae

iBlake, PUSNM 82(28): 31, 1933.

Disonycha brevicornis

nSchaeffer, J. N.Y. Ent. Soc. 39: 281, 1931.

Disonycha laevigata

Leonard, P.R. Dept. Agr. J. 16: 123, 1932.

Disonycha laticollis

nSchaeffer, J. N.Y. Ent. Soc. 39: 284, 1931.

Disonycha latiovittata

nHatch & Beller, Pan-Pac. Ent. 8: 108, 1932.

Disonycha neglecta, nigeiventris

nSchaeffer, J. N.Y. Ent. Soc. 39: 282-284, 1931.

- Disonycha ovata**
in Blake, Bklyn. Ent. Soc. B. 26: 79-81, 1931.
- Disonycha punctipennis, quinquevittata**
nSchaeffer, J. N.Y. Ent. Soc. 39: 279-280, 284-285, 1931.
- Disonycha schaefferi**
in Blake, PUSNM 82(28): 24-25, 1933.
- Disonycha spp.**
Blake, Bklyn. Ent. Soc. B. 25: 210, '30.
iBlake, PUSNM 82(28): 1933, 66p.
Schaeffer, J. N.Y. Ent. Soc. 39: 279-285, 1931.
- Disonycha stenosticha**
nSchaeffer, J. N.Y. Ent. Soc. 39: 285, 1931.
- Disonycha teapensis**
in Blake PUSNM 82(28): 38-39, 1933.
- Disonycha triangularis (Triangular flea-beetle)**
iBlake PUSNM 82(28): 59, 1933.
Mitchener, Ent. Soc. Ont. R. 61: 21, 1931.
Twinn, Que. Soc. Prot. Pl. R. 23/24: 153, 1932.
- Disonycha xanthomelaena**
iBlake, PUSNM 82(28): 57, 1933.
Britton, Conn. B. 344: 161, 1933.
iGilbert & Popenoe, USDA FB 1371 rev.: 12-13, 1934.
- Dissochaetus arizonensis, decipiens, oblitus**
nHatch, J. N.Y. Ent. Soc. 41: 197-199, 1933.
- Dissochaetus portoricensis**
nHatch, J. N.Y. Ent. Soc. 41: 199, 1933.
- Dissosteira carolina (Carolina grasshopper)***
Buckell, B.C. Ent. Soc. P. 27: 35-36, 1930.
Criddle, Can. Dept. Agr. B. n.s. 143: 18, 1931.
iDrake & Decker, Iowa Ext. B. 182: 5-6, 1932.
Knowlton & Janes, Utah Acad. Sci. P. 9: 107, 1932.
iWeed, Insect Ways: 134-136, 1930.
- Dissosteira longipennis**
iList. Col. Ent. C. 59: 6, 1934.
- Dissosteira spurcata**
Henderson, Utah C. 96: 27, 1931.
- Ditaxineura anomalostigma**
biCarpenter, Amer. J. Sci. Ser. 5, 21: 123-129, 1931.
- Ditaxineura cellulosa**
in Carpenter, Amer. Acad. Arts & Sci. P. 68: 419-420, 1933.
- Ditrichophora laevior, trisetia**
nCresson, Trans. Amer. Ent. Soc. 60: 200-201, 1934.
- Ditropinotus aureoviridis**
biGahan, USDA Misc. Pub. 174: 25-30, 1933.
iKnowlton & Janes, Utah B. 243: 10, 1933.
- Ditylenchus dipsaci**
iThone, Through the Leaves 19: 187-188, 1931.
- Divarinychus floridensis**
in McGregor, P. Ent. Soc. Wash. 32: 161-163, 1930.
Yothers & Keck, South. Flor. 29(25): 7, 1930.
- Diversinervus de santisi**
nCompere, Cal. Univ. Pub. Ent. 5: 239-241, 1931.
- Diversinervus elegans**
iCompere, Cal. Univ. Pub. Ent. 5: 241-245, 1931.
Hutchison, Cal. R. f. 1929-1930, 36, '31.
- Diversinervus meridionalis**
in Compere, Cal. Univ. Pub. Ent. 5: 237-239, 1931.
- Diversinervus scutatus**
in Compere, Cal. Univ. Pub. Ent. 5: 235-237, 1931.
- Diversinervus spp.**
Compere, Cal. Univ. Pub. Ent. 5: 233-245, 1931.
- *Dobson fly, see Corydalis cornuta**
- Doccossissophothrips animus**
Moulton, Pan-Pac. Ent. 7: 123, 1931.
- *Dock sawfly, see Ametastegia glabrata**
- *Dog flea, see Ctenocephalides canis**
- *Dog follicle mite, see Demodex canis**
- Dogwood insects**
bUnderhill, J. Ec. Ent. 28: 393-396, '35.
- Dohrniphora crockeri, willowsi**
in Van Duzee, Cal. Acad. Sci. P. Ser. 4, 21: 70-71, 1933.
- Dolbina formosana**
Clark, New Eng. Zool. Club P. 13: 45, 1932.

- Doleromorpha, D. porphyria**
 nBraun, Trans. Amer. Ent. Soc. 56: 16, 1930.
- Dolerus arvensis**, *see* **Dolerus unicolor**
- Dolerus unicolor**
 Thompson & Salt, Sask. Farm. 21(8): 5, 1930.
- Doleschallopsis**
 nTownsend, J. N.Y. Ent. Soc. 40: 459, 1932.
- Dolichoderus plagiatus**
 Smith, Ent. News 41: 22, 1931.
- Dolichoderus (Hypoclinea) quadrimaculatus yoshiokae**
 nWheeler, Psyche 40: 67, 1933.
- Dolichopexa (Megistomastix) portoricensis**
 iAlexander, P.R. Dept. Agr. J. 16: 355-356, 1932.
- Dolichocheza (Oropeza) tridenticulata**
 nAlexander, Bklyn. Ent. Soc. B. 26: 177-178, 1931.
- Dolichopodidae**
 Curran, J. N.Y. Ent. Soc. 39: 270-271, 1931.
 Van Duzee, Amer. Mus. Nov. 439, 1930, 5p.; 483, 1931, 26p.; 484, 1931, 14p.; 521, 1932, 14p.; 569, 1932, 22p.; 599, 1933, 27p.
 nVan Duzee, Can. Ent. 62: 84-87, 1930.
 Van Duzee, Ent. News 41: 53-55, 1930; 43: 183-187, 1932.
 iVan Duzee, BAMNH 61: 161-205, '31.
 inVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21: 65-69, 1933.
 iVan Duzee, Hawaiian Ent. Soc. P. 8: 307-357, 1933.
- Dolichopus spp.**
 Cockerell, J. Ec. Ent. 27: 1198, 1934.
 nCurran, Amer. Mus. Nov. 521: 12-13, 1932; 683: 25-26, 1934.
 nVan Duzee, Amer. Mus. Nov. 439: 3-4, 1930; 599: 7-16, 1933.
 inVan Duzee, Pan-Pac. Ent. 6: 124-126, 1930.
 Van Duzee & Curran, Amer. Mus. Nov. 683, 1934. 26p.; 684, 1934. 17p.
- Dolichovespula**, *see* **Vespula (Dolichovespula)**
- Dolichurus greeniei**
 Bradley, Ent. News, 45: 33-34, 1934.
- Dolmacoris, D. deterrana**
 nHutchinson, Conn. Acad. Arts & Sci. Mem. 10: 129-132, 1934.
- Dolophilhiella gabriella**
 inBanks, Psyche 37: 230-231, 1930.
- Domestic animals insects**
 Babcock, Tex. R. 47: 226-227, 1934.
 Marlatt, USDA Ent. R. f. 1931: 71-75.
 Roberts, J. N.Y. Ent. Soc. 42: 249-262, 1934.
 iUSDA YB f. 1933; 234-241.
- Donacia liebecki**
 Frost, Bklyn. Ent. Soc. B. 26: 46, 1931.
- Dontonodus, D. serraticornis**
 nFunkhouser, J. N.Y. Ent. Soc. 38: 407-408, 1930.
- Doodle-bugs**, *see* **Myrmeleontidae**
- Doracivola**, *see* **Dicranotetes**
- Dorcaschema alternatum**
 Knull, Ent. News 45: 210, 1934.
- Dorcasta gracilis**
 nFisher, PUSNM 80(22): 82-83, 1932.
- Dorcus brevis**
 Loding, Bklyn. Ent. Soc. P. 29: 36, 1934.
- Dormant spray**, *see* **Spray—Dormant**
- Doru aculeatum**
 iCooper, Bklyn. Ent. Soc. B. 28: 216, 1933.
- Doru lineare**
 Loftin & Christenson, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 115, [P. Pt. 2]: 10, 1932.
- Dorycephalus platyrhynchus**
 Ball, Ann. Ent. Soc. Amer. 25: 497-498, 1932.
- Dorylaea rhabdotops**
 inHebard, P. Acad. Nat. Sci. Phila. 81: 80-82, 1929.
- Dorylus helvolus (Driver ant)**
 iChapin, Nat. Hist. 31: 603, 1931.
 iGuenther, tr. by Miall, Naturalist in Brazil: 312-318, 1931.
 Neely, Atlantic Month. 149: 493-495, 1932.
 iVandercook, Rev. of Rev. 81(4): 79-80, 1930.
- Dorylus (Anomma) nigricans**
 Chapin, J. N.Y. Ent. Soc. 42: 235, '34.
- Dorylus spp.**
 Strong, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 194-196, 1930.

- Dorythrips, D. chilensis**
in Hood, Bklyn. Ent. Soc. B. 26: 1-3, '31.
- Doter affinis**
biCarpenter, Psyche 37: 361, 1930.
- Doter minor**
biCarpenter, Psyche 37: 356-361, 1930.
biCarpenter, Amer. J. Sci. Ser. 5, 22: 126-129, 1931.
- Doter pusillus**
biCarpenter, Psyche 37: 362, 1930.
- Douglas fir aphid, see Adelges abietis**
- *Douglas fir beetle, see Dendroctonus pseudotsugae**
- *Douglas fir engraver, see Scolytus unispinosus**
- *Douglas fir tussock moth, see Hemerocampa pseudotsugata**
- Downy darkling beetle, see Epitragodes tomentosus**
- Dracotettix newboldi**
in Hebard, Trans. Amer. Ent. Soc. 57: 125-126, 1931.
- Draeculacephala**
Baldus, Ann. Ent. Soc. Amer. 26: 64-75, 1933.
Ball & China, J. Kans. Ent. Soc. 6: 1-4, 1933.
- Draeculacephala antica**
iBall & China, J. Kans. Ent. Soc. 6: 1-2, 1933.
- Draeculacephala minor**
iBall & China, J. Kans. Ent. Soc. 6: 2-3, 1933.
- Draeculacephala mollipes (Sharp-nosed leafhopper; Tender-footed leafhopper)**
Claassen, Amer. Fr. Grow. Mag. 53(2): 13, 1933.
iClaassen, J. Ec. Ent. 26: 282-284, '33.
Lawson, J. Kans. Ent. Soc. 3: 37-38, 1930.
biOsborn, USDA C. 241: 15-18, 1932.
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 7, 1932; 8: 243, 1933.
- Draeculacephala paludosa, producta**
iBall & China, J. Kans. Ent. Soc. 6: 2-3, 1933.
- Draeculacephala reticulata, see Carnecephala reticulata**
- Dragonflies, see Odonata**
- Drapetes cylindricus**
nFall, Can. Ent. 64: 61-62, 1932.
- Drassus shumakovi**
in Spassky, J. N.Y. Ent. Soc. 42: 1-2, '34.
- Drasteria graphica**
bCrumb, Bklyn. Ent. Soc. B. 27: 80, 1932.
- Drasterius inconguus**
nFall, J. N.Y. Ent. Soc. 42: 12-13, '34.
- Dreamy dusky wing, see Thanaos icellus**
- Drepanaphis acerifolii**
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 912-913, 1931.
- Drepanaphis keshenae**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 240-249, 1931.
- Drepanocyrtus reinhardi**
in Mills, Amer. Mus. Nov. 464: 9-10, '31.
- Drepanocyrtus terrestris**
in Folsom, Hawaiian Ent. Soc. P. 8: 69-70, 1932.
- Drepanosiphina**
Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 911, 1931.
- Drepanosiphum braggi, platanoides**
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 913-915, 1931.
- Drepanothrips reuteri (Vine thrips)**
biLockwood, Cal. Agr. Mo. B. 22: 336, 1933.
Moulton, J. Ec. Ent. 24: 1033, 1035, 1931.
- Drepanulatrix liberaria**
McDunnough, Can. Ent. 65: 121-123, 1933.
- Dreyfusia piceae (Balsam-fir bark louse)**
biBalch, For. Chron. 7: 67-68, 1931; 8: 46-51, 1932.
biBalch, Ent. Soc. Ont. R. 62: 61-65, 1932.
Balch, N. S. Dept. Lands & For. R. f. 1931: 48-50, 1932; R. f. 1932: 47-48, 1933; R. f. 1933: 26, 1934.
Balch, Pulp and Paper Mag. of Can. 35: 679, 1934.
iPeirson, Field Book of Destruct. For. Ins. ed. 2: 23, 1932.
Swaine, For. Chron. 9(4): 12-13, 1933.
Twinn, Ent. Soc. Ont. R. 64: 75, 1933; R. 65: 124, 1934.
Violette, Maine For. Com. R. 19: 63, 1932.
- *Dried fruit beetle, see Carpophilus hemipterus (L.)**

Dried fruit insects

Condit, Cal. Ext. C. 77: 59-60, 1933.
 Donohoe & Barnes, J. Ec. Ent. 27:
 1067-1072, 1934.

Donohoe et al., J. Ec. Ent. 27: 1072-
 1075, 1934.

biHerns & Ellsworth, J. Ec. Ent. 27:
 1062, 1934.

iLanglade, Barrel & Box & Pack.
 37(10): 20-21, 1932.

Marlatt, USDA Ent. R. f. 1930, 61-62;
 R. f. 1931, 65-66; R. f. 1932, 26-27;
 R. f. 1933, 33-34.

Ruffin, South. Cult. 89(13): 13, 1931.

Simmons, Cal. Cult. 78: 566, 1932.

Strong, USDA Ent. R. f. 1934: 19.

*Dried fruit mite, *see* *Carpoglyphus passu-*
larum Her.

*Dried fruit moth, *see* *Vitula serratilineella*
 Dried milk insects

Twinn, Ent. Soc. Ont. R. 64: 80, 1933.

bTwinn, Can. Ent. 66: 49-51, 1934.

Drillworms, *see* Wireworms

Driver ant, *see* *Dorylus heilvolus*

Dromaeolus nigripes, *D. pambertonii*

nFleutiaux, Hawaiian Ent. Soc. P. 7:
 455, 1931.

Dromagomphus armatus

Williamson, Mich. Univ. Mus. Zool.
 Occ. Pap. 288: 16, 1934.

Drosophila ampelophila (Pomace fly)*

Bloedorn, Canner, 77(10): 7-8, 1933.
 Bridges, Internat. Cong. Genetics 6, P.
 2: 12-14, 1932.

Brown, J. Heredity, 25: 244-246, 1934.

biCaldis, J. Agr. Res. 40: 1042-1051, '30.

Cory, Md. Agr. Soc. R. 18: 220, 1934.

Davenport, J. Wash. Acad. Sci. 20:
 327, 1930.

biDuncan, Amer. Nat. 64: 545-551, 1930.

Glass, Internat. Cong. Genetics 6, P. 2:
 62-63, 1932.

biGowen, Arch. Path. 17: 638-647, 1934.

Harnly, Amer. Nat. 67: 71-72, 1933.

Jeffrey, Science, n.s. 71: 315-317, '30.

Keifer, Cal. Agr. Mo. B. 19: 580, 1930.

Patterson, Ent. Soc. Ont. R. 65: 78-80,
 1934.

Schultz, Internat. Cong. Genetics 6, P.
 2: 178-179, 1932.

iSimmons, Reed & McGregor, USDA C.
 157: 26-28, 1931.

bSmith & Hansen, Cal. B. 506: 24, 1931.

Walker, Flow Grow. 17: 522, 1930.

bWohl, J. Comp. Psychol. 17: 67-71, '34.

Drosophila ampelophila—Canned to-
 matoes

Bloedorn, Food Ind. 5: 353, 1933.

Drosophila ampelophila—Chromosomes

bBolen, Amer. Nat. 65: 417-422, 1931.

bDobzhansky & Schultz, P. Nat. Acad.
 Sci. 17: 513-518, 1931.

Emerson & Beadle, Internat. Cong.
 Genetics 6, P. 2: 48-49, 1932.

bGowen, J. Gen. Physiol. 14: 447-472,
 1931.

biGowen & Gay, Genetics 19: 189-208,
 1934.

biKaufmann, Amer. Nat. 65: 555-558,
 1931.

biKaufmann, J. Morph. 56: 125-155, '34.

biKostoff, J. Heredity 21: 323-324, 1930.

biMohr, Genetics 17: 60-80, 1932.

Morgan, Internat. Cong. Genetics 6, P.
 2: 135-137, 1932.

Oliver & Van Atta, Internat. Cong.
 Genetics 6, P. 2: 145-147, 1932.

biPainter, Genetics 19: 448-469, 1934.

biRedfield, Genetics 17: 137-152, 1932.
 Sturtevant, P. Nat. Acad. Sci. 20: 51-5

518, 1934.

Drosophila ampelophila—Chromosomes—
 Behavior

bEphrussi, P. Nat. Acad. Sci. 20: 420-
 422, 1934.

biKaufmann, P. Nat. Acad. Sci. 19: 830-
 838, 1933.

bSchweitzer, P. Nat. Acad. Sci. 20: 154-
 158, 1934.

Drosophila ampelophila—Chromosomes—
 Maps

Metz, Sci. Month. 33: 125, 1931.

biPainter, Genetics 19: 175-188, 1934.

Drosophila ampelophila—Chromosomes—
 X

Davenport, Carnegie Inst. Wash. YB
 33: 33-35, 1934.

bDemerec, P. Nat. Acad. Sci. 20: 354-
 359, 1934.

iPainter, Science n.s. 73: 647-648, 1931.

bPatterson, Amer. Nat. 66: 193-206, '32.

Drosophila ampelophila—Chromosomes—
 Y

Gowen & Gay, Amer. Nat. 67: 68, '33.

- bGowen & Gay, P. Nat. Acad. Sci. 19: 122-126, 1933.
- Drosophila ampelophila—Crossing over**
 bBeadle, P. Nat. Acad. Sci. 18: 160-165, 1932.
 bDarlington, Amer. Nat. 68: 374-377, 1934.
 bHikkawa, Amer. Nat. 68: 565-569, '34.
 Morgan, P. Nat. Acad. Sci. 17: 270-272, 1931.
 biRedfield, Genetics, 15: 205-252, 1930.
 Scott, Ill. St. Acad. Sci. Trans. 23: 273-275, 1930.
 Stern, Amer. Nat. 68: 164-165, 1934.
- Drosophila ampelophila—Culture media**
 bBridges & Darby, Amer. Nat. 67: 437-472, 1933.
- Drosophila ampelophila—Development**
 biAlpatov, J. Exp. Zool. 56: 63-71, 1930.
 bDobzhansky, Biol. B 59: 129-132, '30.
- Drosophila ampelophila—Duration of life**
 bAlpatov, Amer. Nat. 64: 37-55, 1930.
- Drosophila ampelophila—Eggs**
 Alpatov, J. Exp. Zool. 63: 85-111, '32.
 biHenshaw & Henshaw, Biol. B. 64: 348-357, 1933.
 Pearl, J. Exp. Zool. 63: 57-84, 1932.
- Drosophila ampelophila—Eye color**
 bGlass, Amer. Nat. 68: 107-114, 1934.
 Schultz & Dobzhansky, Genetics 19: 344-364, 1934.
- Drosophila ampelophila—Genes**
 iAnderson, P. Nat. Acad. Sci. 18: 427-429, 1932.
 Dubinin & Sidoroff, Amer. Nat. 68: 377-381, 1934.
 bGrossman & Smith, Amer. Nat. 67: 429-436, 1933.
 Patterson, Amer. Nat. 65: 86-92, 1931.
 biSchubel, Amer. Nat. 68: 278-282, 1934.
 iTiniakow & Terentieva, Genetics 18: 117-120, 1933.
- Drosophila ampelophila—Genetics**
 bDobzhansky, Amer. Nat. 64: 261-271, 1930.
 biGowen, Amer. Nat. 65: 193-213, 1931.
 biSturtevant & Dobzhansky, ... Genetics of ... *Drosophila melanogaster*, 1931. 81p.
- Drosophila ampelophila—Gonads**
 biKerkis, Genetics 16: 212-224, 1931.
- Drosophila ampelophila—Growth curve of vestigial wings**
 Harnly, Amer. Nat. 67: 71-72, 1933.
- Drosophila ampelophila—Hybrids**
 biBiddle, Genetics 17: 153-174, 1932.
 Jeffrey, Amer. Nat. 65: 19-30, 1931.
 biKerkis, J. Expt. Zool. 66: 477-502, '33.
- Drosophila ampelophila—Inversion**
 biGraubard, Genetics 17: 81-105, 1932.
- Drosophila ampelophila—Maggot therapy**
 bCausey, Amer. J. Hyg. 15: 276-286, 1932.
- Drosophila ampelophila—Meiosis**
 bGowen, J. Expt. Zool. 65: 83-106, '33.
 Huettner, Science n.s. 71: 241-243, '30.
- Drosophila ampelophila—Metabolism**
 biEddy, J. Morph. 51: 435-459, 1931.
- Drosophila ampelophila—Mutation**
 biAgol, Genetics 16: 254-266, 1931.
 biDobzhansky, Genetics 17: 369-392, 1932.
 biHanson & Heys, Amer. Nat. 67: 419-428, 1933; 68: 97-106, 166-167, '34.
 bHersh et al, Amer. Nat. 64: 552-559, 1930.
 bJohnston & Winchester, Amer. Nat. 68: 351-358, 1934.
 bMoore, Genetics 19: 209-222, 1934.
 Morgan, Amer. Nat. 64: 97-114, 1930.
 Muller, Ohio J. Sci. 31: 136-137, 1931.
 Muller, Amer. Nat. 66: 130, 1932.
 Patterson, Amer. Nat. 66: 193-206, '32.
 bPatterson, Genetics 18: 32-52, 1933.
 bRhoades, Genetics 16: 375-385, 1931.
 bSax, P. Nat. Acad. Sci. 17: 601-603, '31.
- Drosophila ampelophila—Oviposition**
 biShapiro, Biol. B. 63: 456-471, 1932.
- Drosophila ampelophila—Oxygen consumption**
 biKucera, Phys. Zool. 7: 449-458, 1934.
- Drosophila ampelophila—Parasites**
 Swezey, Hawaiian Ent. Soc. P. 8: 389, 1934.
- Drosophila ampelophila—Somatic effects**
 Agol, Amer. Nat. 65: 88-92, 1931.
 iAnderson, Amer. Nat. 65: 558-564, '31.
 biPatterson, Genetics, 15: 141-149, 1930.
 Patterson, P. Nat. Acad. Sci. 16: 109-111, 1930.
- Drosophila ampelophila—Starvation**
 biHanson & Heys, Amer. Nat. 67: 127-134, 1933.

***Drosophila ampelophila*—Temperature**

Baron, Amer. Nat. 67: 85-86, 1933.

Child, Amer. Nat. 67: 85, 1933.

biDriver, J. Exp. Zool. 59: 1-44, 1931.

Gowen & Gay, Science n.s. 77: 312, 1933.

biHarnly, J. Exp. Zool. 56: 363-368, '30.

Hersh & Ward, J. Exp. Zool. 61: 223-244, 1932.

biLudwig & Cable, Physiol. Zool. 6: 493-508, 1933.

biStanley, Physiol. Zool. 4: 394-408, 1931.

***Drosophila ampelophila*—Translocations**

biDobzhansky, Genetics 15: 347-399, 1930; 16: 629-658, 1931.

biMuller & Altenburg, Genetics 15: 283-311, 1930.

biPatterson, Genetics 17: 38-59, 1932.

Patterson et al, Amer. Nat. 68: 359-369, 1934.

Stern, P. Nat. Acad. Sci. 20: 36-39, 1934.

***Drosophila ampelophila*—Ultraviolet ray**

bSteen, Ind. Acad. Sci. P. 43: 224-227, 1933.

***Drosophila ampelophila*—X-ray**

biAnderson, Genetics 16: 386-396, 1931.

Davenport, Carnegie Inst. Wash. YB 32: 33-35, 1933.

biDemerec, P. Nat. Acad. Sci. 19: 1015-1020, 1933.

bHanson et al, Amer. Nat. 65: 134-143, 1931.

iHussey et al, J. Gen. Physiol. 16: 207-220, 1932.

bMoore, Biol. B. 62: 294-305, 1932.

bMoore, Amer. Nat. 68: 508-515, 1934.

Patterson, Internat. Cong. Genetics 6, P. 2: 153-155, 1932.

biPatterson & Muller, Genetics 15: 495-577, 1930.

bPatterson & Suche, Genetics 19: 223-236, 1934.

Patterson, et al, J. Heredity, 23: 325-333, 1932.

iSerebrovsky & Dubinin, J. Heredity, 21: 259-265, 1930.

Tennant, Science, n.s. 73: 567-568, '31.

biTimofeeff-Ressovsky, Genetics 22: 67-70, 1931.

biTimofeeff-Ressovsky, J. Heredity 22: 221-223, 1931.

Drosophila funebris

Leech, B.C. Ent. Soc. P. 28: 19-20, '31.

Spencer, Ohio J. Sci. 32: 325, 1932.

iTimofeeff-Ressovsky, J. Heredity 21: 167-171, 1930.

***Drosophila funebris*—Size**

Zarapkin, Internat. Cong. Genetics 6, P. 2: 217-218, 1932.

Drosophila fuscoamoeba

nBryan, Hawaiian Ent. Soc. P. 8: 438, 1934.

Drosophila hydei

bSpencer, J. Expt. Zool. 56: 267-294, 1930.

bSpencer, Ohio J. Sci. 30: 221-228, 1930.

bSpencer, Amer. Nat. 66: 474-479, '32.

Spencer, Internat. Cong. Genetics 6, P. 2: 188-190, 1932.

Drosophila imagoes

Thompson & Tennant, J. Gen. Physiol. 16: 23-36, 1932.

Drosophila immigrans

Keifer, Cal. Agr. Mo. B. 19: 580-581, 1930.

Swezey, Hawaiian Ent. Soc. P. 8: 394, 1934.

Drosophila kauluai

nBryan, Hawaiian Ent. Soc. P. 8: 439-440, 1934.

Drosophila melanogaster*, see *Drosophila ampelophila***Drosophila nigra iki***

nBryan, Hawaiian Ent. Soc. P. 8: 439, 1934.

Drosophila obscura

Gershenson, Amer. Nat. 68: 569-571, 1934.

***Drosophila pseudoobscura*—Chromosomes**

biDobzhansky, P. Nat. Acad. Sci. 19: 950-953, 1933.

***Drosophila pseudoobscura*—Development**

bPoulson, J. Exp. Zool. 68: 237-245, '34.

***Drosophila pseudoobscura*—Hybrids**

Dobzhansky, P. Nat. Acad. Sci. 19: 397-403, 1933.

Drosophila punalua

nBryan, Hawaiian Ent. Soc. P. 8: 438-439, 1934.

Drosophila repleta

- Keifer, Cal Agr. Mo. B. 22: 350, 1933.
Wadley, P. Ent. Soc. Wash. 34: 27-28, 1932.

Drosophila rubrostriata

- Brown, J. Heredity, 25: 244-246, 1934.

Drosophila simulans

- Biddle, Genetics 17: 153-174, 1932.
biKerkis, J. Expt. Zool. 66: 477-502, '33.

Drosophila spp.

- Brown, Col.-Wyo. Acad. Sci. J. 1(5): 76-77, 1933.
iHope, Nature Mag. 24: 115-118, 1934.
McDaniel, Mich. C. B. 144: 13-14, '32.
Poulton, Science n.s. 74: 349, 1931.
Wallace, Ind. Dept. Conserv. R. 13: 59-60, 1931.
Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 33-34, 1932.
Zeleny, Internat. Cong. Genetics 6, P. 2: 218, 1932.

Drosophila spp.—Alcohol

- Brown, J. Heredity 25: 244-246, 1934.

Drosophila spp.—Chromosomes

- bAnderson & Rhoades, Mich. Acad. Sci. Pap. 13: 227-239, 1931.
Beadle & Emerson, Internat. Cong. Genetics 6, P. 2: 7, 1932.
bEmerson & Rhoads, Amer. Nat. 67: 374-377, 1933.
iKoltzof, Science n.s. 80: 312-313, '34.
bSturtevant & Dobzhansky, P. Nat. Acad. Sci. 16: 533-536, 1930.

Drosophila spp.—Culture

- iBridges, Amer. Nat. 66: 250-273, 1932.

Drosophila spp.—Egg

- Child & Howland, Science n.s. 77: 396, 1933.

Drosophila spp.—Eyes

- Hersh, Amer. Nat. 67: 78, 1933.
Patterson & Painter, Science n.s. 73: 530-531, 1931.
Van Atta, Amer. Nat. 65: 382-384, 1931; 66: 93-95, 1932.
biVan Atta, Genetics 17: 637-659, 1932.
bWright, Amer. Nat. 66: 282-283, '32.

Drosophila spp.—Genes

- iGowen, Amer. Nat. 67: 177-180, 1933.
Gowen & Gay, Amer. Nat. 67: 69, '33.
biGowen & Gay, Genetics 18: 1-31, '33.
bSturtevant & Schultz, P. Nat. Acad. Sci. 17: 265-270, 1931.

Drosophila spp.—Mounting on slides

- Patterson, Science, 76: 258, 1932.

Drosophila spp.—Mutation

- Davenport, Carnegie Inst. Wash. YB 30: 46-48, 1931.
bHaldane, Amer. Nat. 67: 5-19, 1933.
bHanson & Heys, Amer. Nat. 66: 335-345, 1932.
Just, Amer. Nat. 66: 61-74, 1932.
Morgan et al, Carnegie Inst. of Wash. YB 31: 303-307, 1932.
Patterson, Biol. B. 61: 133-138, 1931.
Plough, Amer. Nat. 67: 83-84, 1933.
bPlough & Ives, P. Nat. Acad. Sci. 20: 268-273, 1934.

Drosophila spp.—Reactions to 2537A radiation

- iLutz & Grisewood, Amer. Mus. Nov. 706, 1934, 14p.

Drosophila spp.—Temperature

- biEigenbrodt, Phys. Zool. 3: 392-411, 1930.

- biHersh, J. Exp. Zool. 57: 283-306, 1930.

Drosophila spp.—Tumors

- Stark, Sci. News Letter 22: 148, 1932.
Stark, Internat. Cong. Genetics 6, P. 2: 192, 1932.

Drosophila spp.—Ultraviolet radiation

- biThompson & Tennant, Soc. Exp. Biol. & Med. P. 31: 120-121, 1933.

Drosophila spp.—Variations

- Langdon-Davies, Forum 90: 215-217, 1933.

Drosophila spp.—X-ray

- Gowen, Science n.s. 79: 8, 1934.
Hussey et al, J. Gen. Physiol. 16: 207-220, 1932.

- biVan Atta, Genetics 17: 637-659, 1932.
Science, n.s. 79: 8, 1934.

Drosophila spermatozoa

- Howland, Science n.s. 76: 624-625, '32.

Drosophila virilis—Chromosomes

- biChino & Kikkawa, Genetics 18: 111-116, 1933.

Drosophila virilis—Factor

- Lebedeff, Amer. Nat. 67: 69-70, 1933.

Drosophila virilis—Genes

- iDavenport, Carnegie Inst. Wash. YB 32: 39-40, 1933; 33: 35-36, 1934.
bDemerec, P. Nat. Acad. Sci. 18: 430-434, 656-658, 1932; 20: 28-31, 1934.
Demerec, Amer. Nat. 67: 68-69, 1933.

- Drosophila virilis*—Genes *Cont'd*
 biLebedeff, P. Nat. Acad. Sci. 18: 343–349, 1932; 20: 613–616, 1934.
- Drosophila virilis*—Mutations
 bDemerec & Farrow, P. Nat. Acad. Sci. 16: 707–714, 1930.
 iMetz, Sci. Month 33: 128–129, 1931.
- Drosophila z-notata*
 nBryan, Hawaiian Ent. Soc. P. 8: 437, 1934.
- Drug store beetle, *see* *Sitodrepa panicea*
- *Drugstore weevil, *see* *Stegobium paniceum* (L.)
- Drusinus, D. uniformis*
 inBetten, N.Y. St. Mus. B. 292: 359, 360, 1934.
- *Dry-land wireworm, *see* *Ludius inflatus*
- Dryadoblatta*
 nRehn, Trans. Amer. Ent. Soc. 56: 56–58, 1930.
- Drylix medianus*
 inLawson, Ann. Ent. Soc. Amer. 24: 588–590, 1931.
- Drylix spp.*
 iLawson, Ann. Ent. Soc. Amer. 24: 587–590, 1931.
- Drylix truncatus*
 iLawson, Ann. Ent. Soc. Amer. 24: 587–588, 1931.
 iOman, J. Wash. Acad. Sci. 21: 433, '31.
- Drylix utahnsus*
 inLawson, Ann. Ent. Soc. Amer. 24: 590, 1931.
- Dryocoetes confusus* Swaine (Western balsam bark beetle)
 Mathers, Can. Ent. 63: 247–248, 1931.
 Mathers, J. Ec. Ent. 24: 775, 1931.
 Twinn, Ent. Soc. Ont. R. 65: 123, 1934.
- Dryophthorus homoeorhynchus*
 Swezey, Hawaiian Ent. Soc. P. 7: 341, 1931.
- Dryopidae*
 biSegal, Ent. News 44: 85–88, 1932.
- Duchailluia*
 nRehn, P. Acad. Nat. Sci. Phila. 84: 444–445, 1933.
- Duckweed insects
 Sci. News Letter 25: 36, 1934.
- Dull-eyed grayling, *see* *Cercyonis alope nephele*
- Dun skipper, *see* *Euphyes vestris meta-comet*
- Dung beetles, *see* *Scarabaeidae*
- Dusky-veined walnut aphid, *see* *Callipterus juglandis*
- Dusting
 Adams, R. I. Ext. B. 53: 10, 1930.
 iBoyce, Diamond Walnut News 12(3): 14–16, 1930.
 Davis, Market Grow. J. 47: 560, 1930.
 Davis, Seed World 28(4): 13, 1930.
 Ellenwood, Ohio Wkly. P.B. 16(8), '31.
 Hockett, N.Y. (Gen) C. 125: 7, 1932.
 Hutchison, Cal. R. f. 1931–32: 63–64, 1933.
 bMcAlister, J. Ec. Ent. 26: 221–227, '33.
 McGregor, Cal. Cult. 15(5): 202, 1930.
 iMumford, Ill. R. 45: 136–137, 1932.
 iPotter et al, N.H. Ext. B. 47: 51–52, 1934.
 iWatson & Berger, Fla. Ext. B. 67: 83–85, 1932.
- Dusting—Apples
 Ellenwood, Rur. N.Y. 89: 296, 1930.
 Haseman-Johnson, Missouri B. 300: 70–71, 1931.
 Sullivan, Missouri B. 285: 74, 1930.
 iThurston & Worthley, Penn. B. 311, 1934, 15p.
 Worthley, Penn. St. Col. B. 258: 36, '30.
 Ohio B. 500: 42–43, 1932.
- Dusting—Cabbage
 Clark, Tex. R. 47: 238, 1934.
- Dusting—Celery
 Thompson, Ent. Soc. Ont. R. 64: 46–47, 1933.
 Wilson, Ohio Veg. Grow. Assoc. P. 15: 73–78, 1930.
- Dusting—Chrysanthemums
 H.W.S., Flor. Exch. 80: 17, 28, 1932.
- Dusting—Citrus
 Bottel, Cal. Agr. Mo. B. 19: 378–379, 1930.
 iBruner, Rev. de Agr. Cuba 14(19): 35–40, 1934.
 Brunner & Arango, Rev. de Agr. Cuba 14(2): 82–84, 1932.
 McGregor, Pac. Rur. Press 120: 406, 1930.
 iMcGregor, Cal. Cit. 19: 232, 254–256, 1934.
 Watson, Fla. Grow. 38(3): 24, 1930.
 Woglum, Cal. Fr. Grow. Exch. B. 11: 19–21, 1934.

Dusting—Corn

Flint & Larrimer, USDA FB 1498 rev.:
17, 1934.

Dusting—Cost

biDaniels, Col. B. 400: 29, 1933.

Dusting—Cotton

Brannon, South. Cult. 88(1): 8, 1930.
Folsom & Bondy, USDA C. 116, 1930,
117.

iJordan, South. Cult. 88(1): 2, 1930

Peterson, Farm & Ranch 49(17): 10,
1930.

Stewart, La. B. 209: 9, 1930.

iStoutamire, Fla. Dept. Agr. B. 55, n.s.
17, 1931.

Dusting—Cucumbers

Gould, J. Ec. Ent. 23: 197-202, 1930.
Mumford, Ill. R. 46: 154-155, 1933.

Dusting—Gardens

iCooper, South. Agr. 61(6): 24, 1931.

Dean, Kans. St. Hort. Soc. Bien. R.
41: 221-222, 1932.

Ford, Dak. Farm. 52: 273, 1932.

Dusting—Grapes

Currie, Pac. Rur. Press 121: 643, 1931.

Lamiman, Pac. Rur. Press 127: 49c,
1934.

Dusting—Mosquitoes

Twinn, N.J. Mos. Exterm. Assoc. P.
18: 37-39, 1931.

Dusting—Mushrooms

Thomas, Penn. B. 293: 22, 1933.

Dusting—Orchards

iMumford, Ill. R. 45: 136-137, 1932.

Ramsower, Ohio Ext. B. 128: 40-42,
1932.

Rapp, Iowa St. Hort. Soc. Trans. 68:
56-59, 1933.

Rollins, Conn. (Storrs) Ext. B. 206,
1934, 8p.

Dusting—Peaches

iMumford, Ill. R. 43: 141-143, 1930.

Dusting—Peas

iIngerson, Canner 76(20): 7, 8, 20,
1933.

iIngerson, Canning Age 14: 298-299,
1933.

Dusting—Pecans

Demaree, USDA FB 1672: 5-6, 1931.

Gladney, Amer. Nut. J. 31: 53, 1929.

Dusting—Potatoes

Barrus & Crosby, N.Y. (C.) Ext. B.
288: 18-20, 1934.

iGraney, N.Y. Dept. Agr. & Markets
B. 276: 46-47, 1933.

iHaegele & Wakeland, Ida Ext. C. 42:
6-8, 1932.

Huckett, N.Y. (Gen) C. 128: 3-7, 1932.
Huckett, Amer. Potato J. 7: 27-30, '30.

Dusting—Tobacco

Morgan, Rev. de Agr. Cuba 11(8): 41-
45, 1930.

Dusting—Tomatoes

Campbell & Ernst, Pac. Rur. Press 124:
91, 1932.

Dusting—Vegetables

iAmstein, Ark. Ext. C. 330: 3-4, 1934.

iCaesar, Ont. Dept. Agr. B. 359, 1931,
67p.

iDustan, Can. Dept. Agr. B. 161 n.s.
1932, 74p.

iFleming, Metzger & Osburn, USDA C.
326: 10, 1934.

Mitchener, Manitoba Dept. Agr. C.
97, 1930, 8p.

iSherwood, W.Va. Ext. C. 305: 41-43,
1934.

Dusting apparatus

Anderson, Amer. Fr. Grow. Mag. 50(2):
30, 1930.

iBurdette & Headlee, N.J. C. 311: 18-
21, 1934.

iCaesar, Ont. Dept. Agr. B. 359: 5-6,
1931.

iGodbout, Que. Min. de l'Agr. B. 124:
1-7, 1933.

iHaegele & Wakeland, Ida. Ext. C. 42:
6-8, 1932.

Huckett, N.Y. (Gen) C. 125: 6, 1932.

iIngerson, Canner 76(20): 8, 1933.

iLewis, Cal. Agr. Mo. B. 21: 324-339,
1932.

iMcGregor, Cal. Cit. 15: 202, 1930.

iMaheux, Que. Min. de l'Agr. B. 118:
40-42, 1933.

iMetcalf & Flint, Fund. Insect Life:
431-438, 1932.

Quaintance & Siegler, USDA FB 1666:
51-52, 1931.

iVan Leeuwen, J. Ec. Ent. 25: 1108-
1110, 1932.

USDA YB f. 1933: 35.

- Dusting apparatus—Bait gun**
iWilcox, Mote & Childs, *Oreg. B.* 330: 49-50, 1934.
- Dusting apparatus—Corn duster**
iVan Leeuwen, *J. Ec. Ent.* 25: 1108-1110, 1932.
- Dusting apparatus—Cranberries**
Gilliatt, *N.S. Fr. Grow. Assoc. R.* 71: 53, 1934.
- Dusting apparatus—Nurseries**
Whitcomb, *Nat. Nurserym.* 40(2): 10, 1932.
- Dusting apparatus—Plunger—Home garden**
Cocks, *Conn. (Storrs) Ext. B.* 185: 8, 1933.
- Dusting apparatus—Power**
iSouth. *Cult.* 88(1): 1, 1930.
- Dusting apparatus—Tractor**
Fla. *Grow.* 41(7): 14, 1933.
- Dusting vs. Spraying, see Spraying vs. Dusting**
- Dusts**
Bailey, *Vt. Dept. Agr. Ins. Control Div. C.* 8, 1933, 4p.
Lovell, *Cal. B.* 546: 15-17, 1932.
Newcomer, *USDA C.* 270: 72, 1933.
Quaintance & Siegler, *USDA FB* 1270, rev.: 94, 1931.
iRandall & Doody, *Kofoid, Termites and Termite Control*: 433-446, '34.
Richardson, *Iowa Hort. Soc. Trans.* 66: 10-11, 1931.
iRuhmann, *B.C. Dept. Agr. Hort. C.* 71, 1931, 6p.
Sherwood, *W.Va. Ext. C.* 294: 33-35, 1930.
- Dusts—Adhesives & carriers**
Potts & Barnes, *J. Ec. Ent.* 24: 1110-1111, 1931.
- Dusts—Anhydrous copper dust**
Kenyon, *Cal. Cult.* 76: 465, 1931.
- Dusts—Arsenical**
biDaniels, *Col. B.* 400: 5-34, 1933.
iPemberton, *Hawaiian Pl. Rec.* 36: 7-12, 1932.
Travis & Decker, *Iowa J. Sci.* 7: 493-498, 1933.
- Dusts—Barium fluosilicate**
Delaplane, *Purdue Agr.* 28: 52, 1934.
Delphy, *Cal. Cult.* 75: 469, 483, 1930.
- Friend, *N.H. Hort. Soc. R. Meet. Manchester, Dec. 8, 1932*: 77-79.
iLacroix, *Conn. B.* 350: 489-491, 1932; B. 367: 137-139, 1934.
- Dusts—Barium fluosilicate & mineral oil**
iBoyce, *Diamond Walnut News* 15(3): 8-9, 1933; 16(3): 12-13, 1934.
- Dusts—Bordeaux mixture vs copper-lime**
bBonde, *Maine B.* 362: 193-194, 1932.
- Dusts—Calcium arsenate**
Folsom & Bondy, *USDA C.* 116, 1930, 11p.
Grossman, *Fla. P. B.* 434: 2, 1931.
Mumford, *Ill. R.* 46: 154-155, 1933.
Stewart, *La. B.* 209: 9, 1930.
- Dusts—Calcium arsenate & gypsum**
iAmos, *Purdue Agr.* 26: 131, 1932.
Friend, *Conn. Veg. Grow. Assoc. R.* 20: 69-70, 1933.
Ruggles, *Minn. Hort.* 61: 132-133, '33.
- Dusts—Calcium arsenate & hydrated lime**
Caffrey, *Md. Agr. Soc. R.* 19: 278, '34.
- Dusts—Calcium arsenate & sulphur**
Friend, *Conn. Veg. Grow. Assoc. R.* 20: 68, 1933.
- Dusts—Calcium cyanide**
Currie, *Pac. Rur. Press* 121: 643, 1931.
iKenyon, *Cal. Cult.* 76: 571, 587, 1931.
Kenyon, *Cal. Cult.* 80: 247, 1933.
Lockwood, *Cal. Cult.* 75: 27, 42, 1930.
Smith, *Cal. B.* 505: 15-19, 1931.
- Dusts—Calomel and gypsum**
Can. *Hort. Fr. & Truck ed.* 56: 29-30, 1933.
- Dusts—Contact**
iStear, *J. Ec. Ent.* 25: 929-930, 1932.
- Dusts—Copper—Adherence**
Streeter, Mader & Kokoski, *Phytopath.*, 22: 645-650, 1932.
- Dusts—Copper—Analyses**
N.Y. *Dept. Agr. & Markets B.* 250: 4-5, 16, 1931.
- Dusts—Copper lime**
Barrus & Crosby, *N.Y. (C.) Ext. B.* 288: 18-20, 1934.
- Dusts—Copper sulphate—Termites**
O'Neill, *Ga. St. Ent. C.* 42: 10, 1932.
- Dusts—Cryolite**
Ryan, *Diamond Walnut News* 15(2): 8-9, 1933.

Dusts—Cryolite and mineral oil

- iBoyce, Diamond Walnut News 14(3):
15-17, 1932; 15(3): 8-9, 1933;
16(3): 12-13, 1934.

Dusts—Derris

- Wolters, Hawaiian Pl. Rec. 38: 267-
268, 1934.

Dusts—Derris, rotenone & sulphur

- Caffrey, Md. Agr. Soc. R. 19: 277, '34.

Dusts—Fluorine

- Cal. Cit. 19: 145, 1934.

Dusts—Fluosilicate

- Lovell, Cal. B. 546: 13-14, 1932.
Pac. Rur. Press 122: 418, 1931.

Dusts—Formaldehyde

- iAlexander, Ohio Bi-Month. B. 152:
170-175, 1931.

Dusts—Formulae

- Wilkinson, Conn. (Storrs) Ext. B. 196:
8, 1933.

Dusts—Hydrated lime

- iFleming, et al, USDA C. 326: 10, 1934.

Dusts—Kerosene—pyrethrum

- Twinn, N.J. Mos. Exterm. Assoc. P.
18: 37-39, 1931.

Dusts—Lead arsenate

- iLacroix, Conn. B. 367: 139, 1934.
McDaniel, Mich. Sp. B. 243: 4, 1933.
Morgan, Rev. de Agr. Cuba 11(8): 41-
45, 1930.
Flor. Rev. 70(1801): 27, 1932.

Dusts—Lead arsenate & sulphur

- iRuggles, Minn. Hort. 62: 153, 1934.

Dusts—Lead arsenate, copper, lime

- Moznette, Amer. Nut. J. 31: 28, 1929.

Dusts—Lime, copper & calcium arsenate

- iGraney, N.Y. Dept. Agr. & Markets B.
276: 46-47, 1933.

Dusts—Lime-sulphur

- Ballou & Lewis, Ohio Hort. Soc. P. 67:
68-70, 78, 1934.

Dusts—Magnesium arsenate & barium fluosilicate

- biFriend & Turner, Conn. B. 332: 94-101,
1931.

Dusts—Mineral oils

- Flint & Farrar, J. Ec. Ent. 25: 269-271,
1932.

Dusts—Monohydrated copper sulfate and calcium arsenate

- Friend, N.H. Hort. Soc. R. Meet.
Manchester, Dec. 8, 1932: 77-79.

Dusts—Nicotine

- iBurdette & Headlee, N.J. C. 311: 18-
29, 1934.

Caesar, Can. Glad. Soc. B. 7: 77-78, '30.

- iChitenden & White, La Hacienda, 26:
536-538, 1931.

Currie, Pac. Rur. Press 121: 643, 1931.

- iDavis, Purdue Agr. 28: 2, 9, 1933.

iIngerson, Canner 76(20): 7-8, 20, 1933.

Kelly, Kans. Farm 72(9): 12, 1934.

Kenyon, Cal. Cult. 76: 266, 1931.

Lockwood, Cal. Cult. 76: 146-147, '31.

Smith, Cal. B. 505: 15-19, 1931.

Wright, Diamond Walnut News 15(2):
2, 1933.

Dusts—Nicotine sulphate

Gilbert & Popenoe, USDA FB 1371
rev. 6: 41-42, 1934.

Huckett, N.Y. (Gen.) C. 128: 6, 1932.

Kimball, Cal. Cult. 81: 446, 1934.

Tubbs, Diamond Walnut News 16(2):
7-8, 1934.

Wright, Pac. Rur. Press 120: 61, 1930.

Dusts—Nicotine sulphate & hydrated lime

Gladney, Amer. Nut. J. 31: 53, 1929.

- iPartlow, Purdue Agr. 28: 34, 1934.

Dusts—Non-arsenical

bHervey & Palm, N.Y. (Gen) B. 640,
1934, 17p.

Dusts—Paris green

biSnyder, Pac. Sci. Cong. 4, P. 4: 145-
146, 1930.

Dusts—Pyrethrum

iLarcoix, Conn. B. 367: 137-139, 1934.

Thomas, Penn. B. 293: 22, 1933.

Dusts—Pyrethrum & nicotine

Caffrey, Md. Agr. Soc. R. 19: 276, 1934.

Dusts—Pyrethrum & sulphur

Clark, Tex. R. 47: 239, 1934.

Dusts—Rotenone

iChristensen, Wis. B. 428: 104-105, '34.

Clark, Tex. R. 47: 238, 1934.

iLacroix, Conn. B. 367: 137-139, 1934.

Dusts—Sodium fluosilicate

Smith, Cal. B. 505: 18-25, 1931.

Dusts—Sulphur

Braucher, Diamond Walnut News
16(2): 2, 1934.

Hutchison, Cal. R. f. 1932-34: 60.

iMcGregor, Cal. Cit. 15(5): 202, 1930.

McGregor, Pac. Rur. Press 120: 406,
1930

Dusts—Sulphur *Cont'd*

McGregor, Cal Cit 16: 144, 172, 173, 1931.

iMcGregor, Cal. Cit. 19: 232, 254-256, 1934.

iMcGregor, USDA FB 831 rev.: 10, '34. Marlatt, USDA Ent R. f. 1932: 6.

Quayle, Cit. Leaves 13(3): 19-20, 1933.

Smith, Cit. Leaves 13(5): 3, 1933.

iStreeter & Rankin, N.Y. (Gen.) TB 160, 1930, 16p.

Thompson, Ent Soc. Ont. R 64: 46-47, 1933.

Whitney, Cal Cult. 74: 622-623, 1930.

Woglum, Cal. Fr Grow. Exch. B. 11: 19-21, 1934.

Dusts—Sulphur & arsenicals

N Y Dept. Agr & Markets B 250: 5-6, 22 1931.

Dusts—Tobacco

iPratt, Pineapple News, 4: 65-68, 1930. Quaintance & Siegler, USDA FB 1666: 25, 1931.

Flor. Rev. 70(1802): 27, 1932.

Dusts—Toxicity

Kofoed & Williams, Kofoed, Termites and Termite Control: 447-449, 1934.

Dusts—Zinfandelite

Braunton, Cal Cult 75: 518, 1930.

Dusts, *see also* under name of major pests,

Dusts and dusting e.g. *Epilachna corrupta*. Dusts and dusting

Dutch elm disease

Bailey, Vt. St. Comm Agr. Bien. R. 17: 75-76, 1934.

Baldwin, N.Y. St. Dept. Agr R. f. 1933: 96, 98, 1934.

iBeattie, Amer. For. 37: 489, 1931.

Beattie, Nat. Shade Tree Conf. P. 9: 101-105, 1933.

Beattie, J Wash Acad. Sci. 23: 488 '33.

Beattie, J. Ec. Ent. 27: 569-572, 1934.

Beattie, Nat. Shade Tree Conf. P. 10: 76-78, 1934.

iBeattie, USDA YB f. 1934: 189-190.

Campbell, Gard. Gossip 9(2): 14-15, 1934.

Clinton, Amer. Nurserym. 58: 94, 1933.

Dodge, J. N.Y. Bot. Gard. 34: 170-171, 1933.

iFelt, Bartlett Tree Res. Lab. Ed B. 60, 1933, 23p.

Felt, Flor. Exch. 81(33): 21, 1933.

Felt, J. Ec. Ent. 27: 315-319, 1934.

Fracker, Sci. News Letter 26: 174, '34.

Herrick, Amer. Nurserym. 59(9): 4, '34.

iHerrick, Rur. N.Y. 93: 258-259, 1934.

Hoyt & Beattie, Amer. Nurserym. 58: 117, 1933.

Huntington, Gard. Club Amer. B. Ser. 5(12): 106-107, 1934.

Jacot, J. Ec. Ent. 27: 858-859, 1934.

Kellerman, Amer. Nurserym. 60(1): 4, 1934.

iKnull, J. Ec. Ent. 27: 865-866, 1934.

iLiming, Amer. Nurserym. 57: 56, 66, 1933.

Liming, Nat. Shade Tree Conf. P. 10: 67-72, 1934.

biLinder, Missouri Bot. Gard. B. 19: 61-69, 1931.

iMcCallum, Can. Dept. Agr. Pam. n.s. 159, 1934. 7p.

bMcLaine, Ent. Soc. Ont. R. 64: 41-43, 1933.

iMay, USDA C. 322, 1934, 19p

May et al, Nat. Shade Tree Conf. P. 10: 78-95, 1934.

Middleton, P. Ent. Soc. Wash. 36: 264, 1934.

Pomerleau, Nat. Can. 61: 305-308, '34.

Rankin, Gard. Chron. Amer. 37: 343-344, 1933.

Rankin, Seed World 34(8): 9, 1933.

Wallace, Ind. YB f. 1930: 482.

Weiss, N.J. St. Dept. Agr. R. 19: 158-161, 1934.

iWelch et al, N.Y. (C.) Ext. B. 290, 1934, 19p.

White, N.J. Agr. 15(5): 1, 1933.

White, Amer. Assoc. Nurserym. Conv. 59: 103-105, 1934.

Woodward, J. N.Y. Bot. Gard. 34: 222-224, 1933.

Amer. For. 39: 520, 1933; 40: 534, 1934.

Amer. Nurserym. 59(12): 10, 1934.

Flor. Exch. 81(28): 17, 1933; (35): 12, 1933.

Ida. News Letter 18(6): 3, 1934.

J. Ec. Ent. 26: 1190, 1933; 27: 867-868, 1934.

N.H. For. Com. Bien. R. f 1933-34: 28-29.

N.J. C. 296, 1934, 2p.

- iOutdoor Ind. 1(10): 13, 20, 1934.
 Science n.s. 78(2018 sup.): 10, 1933; 79: 516-517, 1934; 80: 180, 200, 1934; 80(2064 sup.): 6-7, 1934.
 Sci. News Letter 24: 104, 179, 1933; 26: 38, 373, 1934.
- Dutch elm disease—England**
 Science, n.s. 80: 471-472, 1934.
- Dutch elm disease—New Jersey**
 White, Nat. Shade Tree Conf. P. 9: 105-110, 1933.
 Hort. n.s. 11: 272, 1933.
 J. Ec. Ent. 26: 1007, 1933.
 Nat. Nurserym. 41(16): 7; (22): 9-10, 1933; 42(8): 9, 1934.
 Science n.s. 78: 117-118, 1933.
 Nat. Nurserym. 41(20): 6, 1933.
- Dutch elm disease—Quarantine**
 Fleury, Cal. Agr. Mo. B. 23: 487, 1934.
 J. Ec. Ent. 26: 1191, 1933.
 Nat. Nurserym. 38(18): 7, 1930.
 Sci. News Letter 24: 297, 1933.
 Science n.s. 78: 572-573, 1933.
- Dutox, see Spray materials—Dutox**
- Dyakina**
 nHebard, P. Acad. Nat. Sci. Phila. 81: 17-18, 1929.
- Dyme magnifica**
 inHebard, Trans. Amer. Ent. Soc. 59: 123-125, 1933.
- Dynastes tityus**
 Calvert, Ent. News 41: 195-201, 234-237, 1930.
 Fattig, Ent. News 44: 20-21, 1933.
 Henshaw, Ent. News 43: 77, 1932.
 Jones, Ent. News 41: 305-306, 1930.
 Marston, Ent. News 41: 28, 1931.
- Dynastinae—Cuba and Isle of Pines**
 iChapin, Ann. Ent. Soc. Amer. 25: 285-308, 1932.
- Dyschirius coamensis**
 nMutchler, Amer. Mus. Nov. 686: 2-3, 1934.
- Dyscrasis, D. hendeli**
 nAldrich, PUSNM 81(9): 7-9, 1932.
- Dyscritomyia terryi**
 inBryan, Hawaiian Ent. Soc. P. 8: 419-421, 1934.
- Dysdercus andreae**
 Leonard, Rev. Agr. P.R. 25: 136, 1930.
 Rodrigues, P.R. Ins. C. 102: 30, 1933.
 Wolcott, J. Ec. Ent. 24: 134, 1931.
- Dysdercus fernaldi, howardi, maurus**
 bPearson, Psyche 39: 114-119, 123-126, 1932.
- Dysdercus mimulus Hussey (Arizona cotton stainer)***
 bPearson, Psyche 39: 119-123, 1932
- Dysdercus neglectus**
 Rodrigues, P.R. Ins. C. 102: 30, 1933.
- Dysdercus spp.**
 Wolcott, Can. Field-Nat. 46: 175, 1932.
 bWolcott, Ec. Ent. of W. I.: 286-295, '33.
- Dysdercus suturellus (Cotton stainer)***
 Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(5): 34, 1931.
 iFolsom, USDA FB 1688: 17-18, 1932.
 Watson, Fla. B. 232: 69, 1931.
 Watson & Berger, Fla. Ext. B. 67: 106-107, 1932.
- Dyseuaresta**
 biBenjamin, USDA TB 401: 51-52, 1934
- Dysidius purpuratus**
 Nicolay & Weiss, J. N.Y. Ent. Soc. 42: 210-211, 1934.
- Dyslobus bakeri, blaisdelli**
 nVan Dyke, Pan-Pac. Ent. 9: 42-44, '33.
- Dyslobus decoratus**
 biWilcox et al, Oreg. B. 330: 77-87, 1934.
- Dyslobus dolorosus, franciscanus**
 nVan Dyke, Pan-Pac. Ent. 9: 45-47, '33.
- Dyslobus granicollis, simplex**
 Van Dyke, Pan-Pac. Ent. 9: 37-39, '33.
- Dyslobus spp.**
 Keifer, Ent. Amer. 13 n.s.: 59-63, 1932.
 Van Dyke, Pan-Pac. Ent. 9: 31-47, '33.
- Dyslobus tanneri**
 nVan Dyke, Pan-Pac. Ent. 9: 42, 1933.
- Dyslobus ursinus**
 biWilcox, Mote & Childs, Oreg. B. 330: 87-92, 1934.
- Dyslobus viridescens**
 nVan Dyke, Pan-Pac. Ent. 9: 40, 1933.
- Dyslobus wilcoxi**
 nVan Dyke, Pan-Pac. Ent. 9: 40-41, '33.
 biWilcox et al, Oreg. B. 33: 92-96, 1934.
- Dysmachus strigatibia**
 nCurran, Amer. Mus. Nov. 487: 25, '31.
- Dysyncritus discrepans, lineatus, nubilis**
 nGoding, Amer. Mus. Nov. 421: 12-14, 1930.
- Dythemis spp.—Key**
 Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 61-62, 1932.

Dythemis velox

Needham, Ent. News 44: 98, 1933.

Dytiscus marginalis

Hayes, U.S. Nav. Med. B. 28: 204, '30.

Eacles imperialis (Durry) (Imperial moth)*

iMcDaniel, Mich. Sp. B. 243: 55-56, 1933.

O'Byrne, Ent. News 45: 101-102, 1934.

Eantis pallida

bBates, Fla. Ent. 17: 45, 1933.

Eanus Spp.—Revision

in Brown, Can. Ent. 62: 161-166, 1930.

Ear mange, see Otodectes cynotis***Ear tick, see Ornithodoros megnini Duges****Earthworms**

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 52-53, 1931.

Brallian, Flow. Grow. 18: 14-15, 1931.

Cole, Science n.s. 79: 163-164, 1934.

Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 54-56, 1930.

Coonfield, Kans. Acad. Sci. Trans. 34: 115, 1931.

Filing, Ohio R. 49: 85-86, 1931.

Gibson, Can. Dept. Agr. B. n.s. 99, rev.: 66, 1934.

Hurst, Science n.s. 74: 656, 1931.

iMcAtee, Nature Mag. 22: 33, 1933.

McDaniel, Mich. Sp. B. 214: 20-21, '31.

Mills, Flow. Grow. 17: 233, 1930.

Mumford, Ill. R. 43: 149-150, 1930.

Mumford, Ill. R. 46: 158, 1933.

bOlson, Ohio. J. Sci. 33: 192, 1933.

Pettit, Mich. Ext. B. 125: 8-9, 1932.

Rowell, Science n.s. 73: 213, 1931.

Schwartz, Sci. News Letter 22: 80, '32.

biShensa & Barrow, Ohio J. Sci. 32: 507-512, 1932.

Wallace et al, Ind. Dept. Conserv. R. 14: 55, 1932.

Weed, Flow. Grow. 17: 566, 1930.

iLawn Care 3(3): 1-2, 1930.

Lawn Care 6(2): 3-4, 1933.

U.S. Golf Assoc. Green Sec. B. 12: 80, 1932.

Earthworms—Electrocution

Walton, P. Ent. Soc. Wash. 35: 24-27, 1933.

Weitzel, Lawn Care 6(1): 3-4, 1933.

Earthworms—Steam sterilization

Mumford, Ill. R. 42: 150, 1929.

Earwig, see Forficula auricularia**Eastern dog tick, see Dermacentor variabilis*****Easternfield wireworm, see Limonius ectypus (Say.)*****Eastern larch beetle, see Dendroctonus simplex Lec.*****Eastern spruce beetle, see Dendroctonus piceaperda Hopk.*****Eastern tent caterpillar, see Malacosoma americana (F.)****Eastern trapdoor spider, see Pachylomerus audouini.****Ebo cockerelli**

in Bryant, B. Mus. Comp. Zool. 74: 187-188, 1933.

Ebo pepinensis

nGertsch, Amer. Mus. Nov. 637: 1-2, 1933.

Eburia quadrigeminata (Ivory spotted long horn)

biGoldman, Trans. Amer. Ent. Soc. 59: 87-88, 1933.

iMcDaniel, Mich. Sp. B. 238: 14, 1933.

Eburia ramsdeni

nFisher, PUSNM 80(22): 14-15, 1932.

Eburia spp.

nFisher, PUSNM 80(22): 9-19, 1932.

Eccoptogaster, see Scolytus.**Ecdyonurus, see Stenonema****Echidnophaga gallinacea (Westw.) (Stick-tight flea)***

bBice, Hawaii C. 5: 36-37, 1932.

iEskey, U.S. Pub. Health R. 47: 2197-2200, 1932.

Gibson, Sci. Agr. 11: 217, 1930.

iHall, USDA C. 388, rev.: 16-17, 1934.

iLamon & Kinghorne, Pract. Poul. Prod. rev.: 332, 1930.

biMatheson, Med.: Ent. 421, 1932.

Mehrhoft, Fla. Grow. 39: 12, 14, 1931.

iRiley & Johannsen, Med. Ent.: 399, 1932.

iSanderson, Ins. Pests Farm, ed. 3: 527-528, 1931.

Schwartz & Shook, USDA FB 1568, rev.: 10, 1931.

Stewart, J. Ec. Ent. 25: 164-167, 1932.

Stoddard, Bobwhite Quail: 323, 1931.

Watson, Fla. Grow. 40(11): 23, 1932; 41(4): 25, 1933.

- Echinicerya**
inMorrison, P. Wash. Biol. Soc. 43: 17-18, 1930.
- Echinicerya anomala**
bHughes-Schrader, Ann. Ent. Soc. Amer. 23: 374-375, 1930.
biHughes-Schrader, J. Morph. 50: 490-491, 1930.
inMorrison, P. Wash. Biol. Soc. 43: 18-20, 1930.
- Echinolaelaps echidninus**
Rumreich, Dyer & Badger, U.S. Pub. Health Serv. R. 46: 472, 1931.
- Echinophthirius**
biFerris, Stanford Univ. Pub. Univ. Ser. Biol. Sci. 2: 475-480, 1934.
- Echinosoma occidentale**
iRehn, BAMNH 49: 364-366, 1931.
- Echmepteryx costalis, marmorata, unicolor**
inBanks, Hawaiian Ent. Soc. P. 7: 439-440, 1931.
- Eciton—Raiding behavior**
Schneirla, P. Nat. Acad. Sci. 20: 316-320, 1934.
- Eciton hamatum**
biSchneirla, J. Comp. Psychol. 15: 267-299, 1933.
- Eciton mexicanum**
Smith, Ent. News 41: 16-17, 1931.
Smith, J. N.Y. Ent. Soc. 39: 295-298, 1931.
- Eciton pilosus**
Smith, J. N.Y. Ent. Soc. 39: 295-298, 1931.
- Eciton schmitti**
Rau, Acad. Sci. St. Louis Trans. 28: 213-214, 1934.
- Eciton (Acamatus) wheeleri**
binCreighton, Psyche 39: 75-78, 1932.
- Ecimus muricatus**
James, J. N.Y. Ent. Soc. 40: 435, 1932.
- Ecology—Animal**
biBlake, Ecology, 12: 508-527, 1932.
bLudwig, Ohio Biol. Surv. B. 36: 228-249, 1932.
MacGintie, Ecology 13: 212-213, 1932.
bShelford, Ecology 11: 235-236, 1930;
13: 105-120, 1932.
- Ecology—Illinois—Bibliography**
Vestal, Ill. St. Acad. Sci. Trans. 27: 163-261, 1934.
- Ecpantheria deflorata**
iShowalter, Nat. Geog. Soc. Our Insect Friends: 190, 1935.
- Ecpantheria icasia**
bBates, Fla. Ent. 17: 45, 1933.
- Ecpantheria spp.**
Forbes, Ann. Ent. Soc. Amer. 26: 560-562, 1933.
- Ectatomma tuberculatum**
biWheeler, Psyche 37: 48-54, 1930.
- Ectemnus paradoxus**
inHutchinson, Conn. Acad. Arts & Sci. Mem. 10: 134-136, 1934.
- Ectobius spp.**
inRehn, P. Acad. Nat. Sci. Phila. 83: 318-374, 1932.
- Ectoparasites**
Dunn, Psyche 39: 26-29, 1932.
bEwing, Amer. Nat. 65: 360-369, 1931.
Ewing, Ann. Ent. Soc. Amer. 24: 746-750, 1931.
Ewing, J. Parasit. 18: 117, 1931.
bEwing, Amer. Nat. 67: 365-373, 1933.
Faust, Sci. Month 33: 229-230, 1931.
iFerris, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1022-1038, 1930.
iFerris, Bernice P. Bishop Mus. B. 98: 117-127, 1932.
Stanford, Utah Acad. Sci. Arts and Letters P. 11: 247, 1934.
- Ectopimorpha luperinae**
nCushman, PUSNM 79(14): 1-2, 1932.
- Ectopsocus aethiops**
inBanks, Psyche 38: 58, 1931.
- Ectopsocus californicus**
iChapman, J. N.Y. Ent. Soc. 38: 377-380, 1930.
- Ectopsocus perkinsi**
inBanks, Hawaiian Ent. Soc. P. 7: 438, 1931.
- Ectopsocus pumilis**
iChapman, J. N.Y. Ent. Soc. 38: 380-383, 1930.
- Ecyrus cornutus, dasycerus, fasciatus**
inLinsley, Pan-Pac. Ent. 7: 86-90, 1930.
- Ecyrus flavus, hoffmanni**
nFisher, PUSNM 80(22): 78-82, 1932.
- Ecyrus insularis, nanus**
nFisher, PUSNM 80(22): 76-80, 1932.
- Ecyrus pencillatus**
Linsley, Pan-Pac. Ent. 7: 89, 1930.

Edessa spp.

Barber, P.R. Dept. Agr. J. 16: 273, '32.
in Barber & Bruner, P.R. Dept. Agr. J.
16: 270-273, 1932.

Elworm, *see* *Rhabditis lambdiensis*

Elworm nematode, *see* *Heterodera marioni*

***Eggplant flea beetle**, *see* *Epitrix fuscata*

***Eggplant lacebug**, *see* *Gargaphia solani*

***Eggplant leaf miner**, *see* *Gnorimoschema glochinella* (Zell.).

Eggs of insects, *see* *Insects—Eggs*

Egyptian oyster shell scale, *see* *Lepidosaphes halli*.

Ehrhornia cupressi (Cypress bark scale)

Burke, Cal. Agr. Mo. B. 21: 363, 1932.

Burke, Nat. Shade Tree Conf. P. 9:
55-56, 1933.

Ryan, Cal. Agr. Mo. B. 20: 254-255,
1931.

***Eight-spotted forester**, *see* *Alypia octomaculata* (F.).

Eiphosoma aztecum, *batatae*

Cushman, PUSNM 79(14): 7-9, '32.

Eiphosoma paraguayense, *septentrionale*

nCushman, PUSNM 79(14): 7-8, 1932.

Elaphidion antillarum

nFisher, PUSNM 80(22): 42-43, 1932.

Elaphidion atomarium

iGoldman, Trans. Amer. Ent. Soc. 59:
88, 1933.

Elaphidion cayamae 24-25, *compressipenne* 35-36, *confusum* 32-33, *costipenne* 39-40, *cubae* 27-28, *dozieri* 38-39, *fasciatum* 28-30, *gracilis* 43-45, *hispaniolae* 30-32

nFisher, PUSNM 80(22): 1932.

Elaphidion (Anoplum) hoferi

nKnull, Ent. News 45: 69-70, 1934.

Elaphidion jamaicensis

nFisher, PUSNM 80(22): 40-42, 1932.

Elaphidion (Anoplum) magnipunctata

nKnull, Ent. News, 45: 12-13, 1934.

Elaphidion manni

nFisher, PUSNM 80(22): 21-22, 1932.

Elaphidion mucronatum

Goldman, Trans. Amer. Ent. Soc. 59:
88, 1933.

Elaphidion pilosum 36-38, *portoricensis* 33-35, *rotundipenne* 23-24, *splendidum* 19-21, *tuberculicollis* 25-27.

nFisher, PUSNM 80(22): 1932.

Elaphidion villosum

McDaniel, Mich. Quar. B. 15: 19-20,
1932.

Elasmopalpus lignosellus (Zell.) (Lesser cornstalk borer)*

iArant, Ala. C. 65: 4-5, 1934.

Hollaway, Facts about Sugar 25: 830,
1930.

Stahl, J. Ec. Ent. 23: 466, 1930.

Watson, Fla. Grow. 38(7): 17, 1930.

Watson, Fla. B. 232: 30-31, 1931.

Watson, Fla. Grow. 40(7): 16, 1932.

Elasmopus rapax

iShoemaker, Amer. Mus. Nov. 598: 15,
1933.

Elasmostethus atricornis, *cruciatu*

biBaker, Can. J. Res. 4: 204-205, 1931.

Elasmostethus interstinctus

iBarber, P. Ent. Soc. Wash. 34: 65-66,
1932.

Elasmus clari

biMahdihassan, Ann. Ent. Soc. Amer.
27: 509-514, 1934.

Elassogaster hyalipennis, *terraereginae*

nMalloch, PUSNM 78(15): 22, 23, 1931.

Elater aerolatus

Knull, Ent. News 45: 208, 1934.

Elater bimaculatus 307-308, *brevis* 309-310, *brunneicolor* 308-309, *cordifer* 303-305, *fenyesi* 302.

nVan Dyke, Cal. Acad. Sci. P. ser. 4, 20:
1932.

Elater lineatus

Knull, Ent. News 43: 44, 1932.

Elater sanguinipennis

Knull, Ent. News 45: 208, 1934.

Elater sellatus, *semicinctus*

Knull, Ent. News 43: 44, 1932.

Elater ursinus, *varipilis*

nVan Dyke, Cal. Acad. Sci. P. ser. 4, 20:
301-302, 306-307, 1932.

Elater verticinus, *vitiosus*, *xanthomus*

Knull, Ent. News 43: 44, 1932.

Elateridae

Beaulieu & Chagnon, Nat. Can. 59(2):
31-36, 1932.

nBrown, Can. Ent. 65: 133-141, 1933.

bBryson, J. Ec. Ent. 23: 303-315, 1930.

iCompton, Ill. C. 391: 16-17, 1932

Fall, J. N.Y. Ent. Soc. 42: 7-36, 1934.

iGibson, Can. Dept. Agr. B. n.s. 99,
rev.: 59, 1934.

- Hawkins, J. Ec. Ent. 23: 349-352, 1930.
 Loftin, Assoc. Tecn. Azucar. Cuba P. 4: 56-57, 1930.
 Pieper et al, Ill. B. 344: 275-276, 1930.
 Ruhmann, B.C. Dept. Agr. R. 24: 141: 1930.
 Van Dyke, Cal. Acad. Sci. P. ser. 4, 20: 291-465, 1932.
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 427-436, 1931.
 biVan Zwaluwenburg, Bernice P. Bishop Mus. B. 98: 129-143, 1932.
- Elateridae—Diseases**
 bThomas, Ent. News 43: 149-155, 1932.
- Elateridae—Fermenting bait**
 Champlain & Knull, Ent. News 43: 253-257, 1932.
- Elateridae—Oceania**
 biVan Zwaluwenburg, Bernice P. Bishop Mus. Occ. Pap. 9(23): 1932, 28p.
- Elateridae—Predators**
 Thomas, Ent. News 42: 137-140, 158-164, 1931.
- Elathous**
 Van Dyke, Cal. Acad. Sci. P. ser. 4, 20: 357-360, 1932
- Elathous brevicornis, brunnellus**
 nFall, J. N.Y. Ent. Soc. 42: 30-32, 1934.
- Elathous californicus**
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 359, 1932.
- Electric light bug, see Lethocerus americanus**
- Electricity and insects**
 iCable, Elec. World 103: 799-802, 1934
 Eyer & Tojada, J. Ec. Ent. 25: 1246-1247, 1932.
 biHeadlee, J. Ec. Ent. 25: 276-288, 1932.
 Holloway, Facts about Sugar 27: 540, 1932.
 Holloway, Sugar B. 11(3): 5-6, 1932.
 Krueger, Agr. Engin. 13: 317, 1932.
 iMartin, Pop. Sci. Month. 123(3): 40-41, 94, 1933.
 Mourontseff, Elec. World 102: 667, '33.
 Sams, Market Grow. J. 51: 405, 1932.
 iWells, J. Ec. Ent. 24: 1242-1247, 1931.
- Electrobittacus, E. antiquus**
 nCarpenter, J. N.Y. Ent. Soc. 39: 410, '31.
- Electropanorpa**
 nCarpenter, J. N.Y. Ent. Soc. 39: 409-410, 1931.
- Eleodes amedeensis, armata pumila**
 nBlaisdell, Trans. Amer. Ent. Soc. 59: 197-201, 1933.
- Eleodes dentipes**
 biDuncan, Cal. St. Teach. Coll. Insects: 113, 1933.
- Eleodes hispilabris (False wireworm)**
 Smith, J. Kans. Ent. Soc. 5: 80, 1932.
 iSmith, J. Kans. Ent. Soc. 7: 44-45, '34.
 iStrickland, Alberta Ext. B. 24: 45-46, 1933.
- Eleodes kaweano 203-206, oblonga 206-208, omitta tumida 194-195**
 nBlaisdell, Trans. Amer. Ent. Soc. 59: 1933.
- Eleodes opaca (Say) (Plains false wireworm)***
 Jones, Tex. R. 46: 52-53, 1933.
 Jones, Tex. R. 47: 52, 1934.
- Eleodes paradoxa, patulicollis**
 Blaisdell, Pan-Pac. Ent. 8: 78 1931.
- Eleodes scabripennis 201-202, scabriven- tris 202-203, spoliata 196-197**
 nBlaisdell, Trans. Amer. Ent. Soc. 59: 1933.
- Eleodes spp.**
 McCampbell, Col. Ext. C. 94 A: 1935, 2p.
 bSeamans, Pac. Sci. Cong. 5, P. 5: 3480 1934.
- Eleodes strumosa**
 nBlaisdell, Pan-Pac. Ent. 8: 76-78, 1931.
- Eleodes suturalis**
 iWade, Nature Mag. 22: 213-215, 1933.
- Eleodes tanneri**
 nBlaisell, Pan-Pac. Ent. 8: 74-76, 1931.
- Elephantocera angulicornis**
 nCurran, BAMNH 61: 97, 1931.
- Elephantomyia spp.**
 nAlexander, Ann. Ent. Soc. Amer. 23: 736, 1930; 24: 631-632, 1931.
 inAlexander, P.R. Dept. Agr. J. 16: 386, 1932.
- Eleutheroda dytiscoides**
 Pope, Hawaii B. 71: 13, 1934.
- Elimaia punctifera**
 Williams, Hawaiian Ent. Soc. P. 8: 388, 1934.
- Elis xanthonotus**
 Wolcott, P.R. Univ. J. Agr. 18: 437, 1934.

Elk insects

iHall, Outdoor Amer. 9(12): 16-17, '31.

Elk tick, see Dermacentor albipictus**Ellingsenius, E. indicus**

Chamberlin, Can. Ent. 64: 35-37, 1932.

Elliptera illini

Rogers, Mich. Univ. Mus. Zool. Occ. Papers 215: 25-27, 1930.

Elliptical goldenrod gall, see Gnorimoschema gallaesolidaginis**Ellopia fervidaria**

iChamberlin, J. Ec. Ent. 24: 1036-1041, 1931.

Keen, J. For. 30: 506-507, 1932.

Marlatt, USDA Ent. R. f. 1932: 23-24.

Watson, Que. Soc. Prot. Pl. R. 22: 89-91, 1931.

Ellopia fervidaria—Parasites

Marlatt, USDA Ent. R. f. 1932: 24-25.

Ellopia fiscellaria Guen. (Hemlock looper)*

biDeGryse & Schedl, Sci. Agr. 14: 523-539, 1934.

iHopping, Timberm. 32(3): 24, 48, 50, 1931.

MacDonald, N.Y. St. Cons. Dept. R. 19: 162, 1930; R. 20: 189-190, 1931.

iMcDaniel, Mich. Sp. B. 243: 34-36, 1933.

iPeirson, Field Book of Destruct. For. Ins. ed 2: 8, 1932.

bPrebble, Can. J. Res. 9(1): 23, 1933.

Schedl, Can. Ent. 64: 2, 1932.

[Smith] & [Hopping], Timberm. 31(7): 18, 1930.

iSwaine, Can. Dept. Agr. Div. For. Ins. Sp. C. July 1930, 2p; Sp. C. 1931, 3p.

Swaine, For. Chron. 9(4): 11-12, 1933.

iTessier, Nat. Can. 57: 61-65, 1930.

Twinn, Que. Soc. Prot. Pl. R. 23/24: 159, 1932.

Twinn, Ent. Soc. Ont. R. 65: 124, 1934.

iWatson, Sci. Agr. 14: 669-678, 1934.

Ellopia somnaria

biChamberlin, J. Ec. Ent. 24: 1036-1041, 1931.

biHopping, Sci. Agr. 15: 12-28, 1934.

Elm bark beetle, see Hylurgopinus rufipes***Elm borer, see Saperda tridentata Oliv.*****Elm casebearer, see Coleophora limosipennella Dup.*****Elm cockscomb gall, see Colopha ulmicola (Fitch)****Elm honeydew aphid, see Myzocallis ulmifolii****Elm leaf aphid, see Myzocallis ulmifolii*****Elm leaf beetle, see Galerucella xanthomelaena (Schr.)*****Elm leaf miner, see Kaliofenusa ulmi*****Elm sawfly, see Cimbex americana Leach.*****Elm scurfly scale, see Chionaspis americana Johns.*****Elm spanworm, see Ennomos subsignarius (Hbn.)****Elmis quadrinotata**

Pate, N.Y. St. Cons. R. 21 sup.: 141, 1931.

Elodia, E. spp.

Aldrich, P. Ent. Soc. Wash. 35: 19-22, 1933.

Elytrogona gemmata

inBlake, Bklyn. Ent. Soc. B. 25: 222-223, 1930.

Emariannia cucullidea

nBenjamin, Pan-Pac. Ent. 9: 2-3, 1933.

Embadomonas phyllophagae

inTraver & Becker, Iowa St. Coll. J. Sci. 5: 227-228, 1931.

Emblethis horvathiana

inHutchinson, Conn. Acad. Arts & Sci. Mem. 10: 128-129, 1934.

Emphor bombiformis

iRau, Bklyn. Ent. Soc. B. 25: 28-34, '30.

iRau, Acad. Sci. St. Louis Trans. 28: 222, 1934.

Emphytina canadensis, see Emphytina pallipes**Emphytina pallipes**

McDaniel, Mich. Sp. B. 214: 100, 1931.

Emphytus canadensis, see Emphytina pallipes**Emphytus cinctipes (Curled rose sawfly)***

iWill, Penn. Acad. Sci. P. 7: 30-32, '33.

Empididae

Curran, Amer. Mus. Nov. 467, 1931. 12p.

Empidigeron

nPainter, Trans. Amer. Ent. Soc. 58: 143-144, 1932.

Empis browni

nCurran, Can. Ent. 63: 93-94, 1931.

Empis panamensis

nCurran, Amer. Mus. Nov. 467: 8-9, '31.

Empis varipennis

nCurran, BAMNH 61: 45-46, 1931.

Empoa rosae, see *Typhlocyba rosae*

Empoasca—Feeding habits

biSmith & Poos, J. Agr. Res. 43: 267-284, 1931.

Empoasca batatae

binPoos, P. Ent. Soc. Wash. 35: 176-177, 1933.

Empoasca canavalia

inDeLong, P.R. Dept. Agr. J. 16: 114-115, 1932.

Empoasca fabae (Potato leafhopper)*

Ackerman, USDA TB 263: 8-9, 17-19, 1931.

Bailey, Vt. Dept. Agr. B. 42: 14, 1934.

Barrus & Crosby, N.Y. (C.) Ext. B. 238: 27-28, 1932; B. 288: 24-26, '34.

iCaesar, Ont. Dept. Agr. B. 359: 60-62, 1931.

iChristensen, Wis. B. 428: 107-108, '34.

Compton, Ill. C. 391: 13-14, 34-35, '32.

Cooper, Ky. R. 42: 36, 1930.

iDeLong, J. Ec. Ent. 24: 475-479, 1931; 27: 525-533, 1934

biDeLong, USDA TB 231: 47-48, 1931.

DeLong, Crop. Prot. Inst. B. 44, 1934, 6p.

DeLong, Ohio Veg. Assoc. P. 19: 80-91, 1934.

iDeLong & Howard, Fla. Grow. 42(1): 8-10, 18, 1934.

biDeLong et al., J. Ec. Ent. 23: 390-394, 1930.

Doane, Common Pests: 220-221, 1931.

iDustan, Can. Dept. Agr. Ent. B. 32: 66-67, 1932.

biFriend & Turner, Conn. B. 332: 105, '31.

Fulton, N.C. R. 55: 45, 1932.

bGarman, Conn. B. 327: 525-526, 1931; B. 338: 572-577, 1932.

Garman, Mass. Fr. Grow. Assoc. R. 38: 128-132, 1932.

Haseman, Missouri Ext. C. 257: 3, '30.

iHollowell, Loudoun-Fauquier Mag. 3(1): 44, 1931.

biJohnson, J. Agr. Res. 49: 379-406, '34.

Kelly, Kans. Farm. 72(10): 12, 1934.

Lobdell, Fla. R. f. 1933: 169-170.

Lockwood, Cal. Agr. Mo. B. 22: 279, 1933.

Marlatt, USDA Ent. R. f. 1930: 24-25.

biMex. Agr. & Fomento, Principales

Plagas: 169, 1930.

biOsborn, USDA C. 241: 31-32, 1932.

Pettit & Hutson, Mich. C. B. 137: 7-8, 1931.

Poos, J. Ec. Ent. 23: 770, 1930; 24: 890-892, 1931; 25: 639-646, 1932.

Poos, J. Wash. Acad. Sci. 20(6): 116-117, 1930.

iPoos & Smith, J. Ec. Ent. 24: 361-371, 1931.

Porter, Tenn. Pl. Dis. Control B. 58: 13, 1931.

iQuaintance & Siegler, USDA FB 127c rev.: 30-31, 1931.

bReed, J. Ec. Ent. 25: 587-591, 1932.

bSchoene, Va. Poly. B. 283, 1932, 34p.

iSmith, J. Ec. Ent. 25: 318-321, 1932.

iSmith, J. Kans. Ent. Soc. 7: 48, 1934.

iSmith & Poos, J. Agr. Res. 43: 274-284, 1931.

Thompson, Fla. R. f. 1932: 72-73

Tissot, Fla. Ent. 16: 45-46, 1932.

Tissot, Fla. R. f. 1933: 78; R. f. 1934: 53.

Twinn, Ent. Soc. Ont. R. 65: 120, 1934.

iWard et al., Ind. Ext. B. 89 rev. 4: 17-19, 1933.

Watson, Fla. R. f. 1929: 56; R. f. 1930: 69.

Watson, Fla. B. 232: 26-27, 1931.

iWolfe & Fifield, Fla. R. f. 1934: 128.

Empoasca fabae—Alfalfa cutting

iJewett, Ky. B. 348: 51-59, 1934.

iSearls, J. Ec. Ent. 27: 80-88, 1934.

Empoasca fabae—Bordeaux

Drake, Iowa R. f. 1932: 59.

iPieper et al., Ill. B. 344: 272, 274, '30.

Empoasca fabae—Pyrethrum & sulphur

Clark, Tex. R. 47: 238, 1934.

Empoasca fabae—Resistant clover

biJewett, Ky. B. 329: 157-172, 1932.

biJewett, J. Ec. Ent. 26: 1135-1137, '33.

Empoasca fabae—Resistant legumes

Searls, J. Ec. Ent. 25: 46-49, 1932.

Empoasca fabae—Spraying

Crosby, N.Y. St. Hort. Soc. P. 77: 10-11, 1932.

Houser, Ohio Hort. Soc. P. 63: 120-121, 1930.

Schoene, Va. Fruit 21(1): 85-88, 1933.

Empoasca fabae and Alfalfa yellows

Poos & Westover, Science n.s. 79: 319, 1934.

Empoasca fabae and "Hopper burn"

Heald, Man. Dis. ed. 2: 147, 1933.

Empoasca fabae and Potato leaf roll
bCleveland, Ind. B. 351: 1-13, 1931.**Empoasca fabae and Tip burn**

Young & Morris, Mont. B. 231: 15, '30.

Empoasca fabalis

inDeLong, Can. Ent. 62: 92-93, 1930.

iDeLong, P.R. Dept. Agr. J. 16: 113-114, 1932.

Empoasca gossypii

iDeLong, P.R. Dept. Agr. J. 16: 114, 1932.

Empoasca maligna (Walsh) (Apple leaf-hopper)*

Ackerman, USDA TB 263: 19-21, '31.

bDeLong, USDA TB 231: 17-18, 1931.

biGarman, Conn. B. 338: 572-577, 1932.

Garman, Mass. Fr. Grow. Assoc. R. 38: 128, 1932.

Hough, Mountaineer Grow. 4(36): 14-15, 1933.

Iddings, Ida. B. 179: 30, 1931; B. 197: 37-38, 1933.

biLockwood, Cal. Agr. Mo. B. 22: 325, 1933.

Empoasca rosae, see Typhlocyba rosae**Empoasca solana**

binDeLong, USDA TB 231: 50, 1931.

Swezey, Hawaiian Ent. Soc. P. 8: 226, 1933.

Empoasca spp.

biDeLong, USDA TB 231, 1931. 60p.

iDeLong, Ohio J. Sci. 32: 393-401, 1932.

inDeLong & Caldwell, Ann. Ent. Soc. Amer. 27: 604-609, 1934.

binPoos, P. Ent. Soc. Wash. 35: 174-178, 1933.

Empoasca spp.—Feeding habits

biSmith & Poos, J. Agr. Res. 43: 267-284, 1931.

Empoasca spp.—Ovipositors

biBaldur, Ann. Ent. Soc. Amer. 27: 293-310, 1934.

Empria fragariae, see Empria obscurata**Empria maculata**

Britton, Conn. B. 344: 166, 1933

Dean, Kans. St. Hort. Soc. Bien. R. 40: 146, 1930.

Empria obscurata

Dean, Kans. St. Hort. Soc. Bien. R. 40: 146, 1930; R. 42: 139, 1934.

Empusa freseni

Tisdale, Fla. R. f. 1930: 96.

Empyreuma heros

nBates, Bost. Soc. Nat. Hist. Occ. Pap. 8: 137-138, 1934.

Emulsions, see Spray materials—Oil emulsions**Enallagma basidens**

iBird, Ent. News 42: 276-277, 1931.

Bird, Sci. Month. 36: 372-374, 1933.

Enallagma civile

iBird, Sci. Month. 36: 372-377, 1933.

Enallagma dubium

Williamson, Mich. Univ. Mus. Zool. Occ. Pap. 288: 12-13, 1934.

Enallagma ebrium—Insectivorous plants

Torrey, Torreyia 31: 147, 1931.

Enallagma sp.

bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 268-269, 1930.

Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 94-95, 1932.

Enallagma weewa

Montgomery, Ent. News 44: 42, 1933.

Williamson, Mich. Univ. Mus. Zool. Occ. Pap. 288: 11, 1934.

Encarsia cubensis

nGahan, P. Ent. Soc. Wash. 33: 121-122, 1931.

Encarsia formosa

Baird, Ent. Soc. Ont. R. 65: 72-73, '34.

Binkley, Market Grow. J. 48: 121, '31

Weir, Can. Min. Agr. R. f. 1931-1932: 178.

Encarsia haitiensis

nDozier, P. Ent. Soc. Wash. 34: 118-119, 1932.

Encarsia versicolor

McDaniel, Mich. Sp. B. 214: 59, 1931.

Enchenopa permitata

Ball, P. Biol. Soc. Wash. 46: 31-32, '33.

Enchytraeus silvestris

Swezey, Hawaiian Ent. Soc. P. 8: 11, 1932.

Encyclops coerulea

Knull, Ent. News 45: 210, 1934.

Encyrtidae

iCompere, Cal. Univ. Pub. Ent. 5: 265-274, 1931.

Encyrtus infelix

bClausen, Ann. Ent. Soc. Amer. 25: 681-682, 1932.

- Swezey, Hawaiian Ent. Soc. P. 7: 341, 1931.
- Encyrtus infidus**
biClausen, Ann. Ent. Soc. Amer. 25: 670-687, 1932.
- Endamus coxeyi**
inWilliams, Trans. Amer. Ent. Soc. 57: 288-290, 1931.
- Endeodes spp.**
binBlackwelder, Pan-Pac. Ent. 8: 128-136, 1932.
- Endochironomus**
Hoffman, Bklyn. Ent. Soc. B. 26: 74, 1931.
- Endothenia (Olethreutes) hebesana**
bDodge & Smith, Amer. Iris Soc. B. 35: 39, 1930.
Gibson, Ent. Soc. Ont. R. 60: 101-102, 1930.
Pettit, Mich. Bd. Agr. R. 67: 198, 1928.
- Endotrombicula, E. penetrans**
inEwing, PUSNM 80(8): 11, 16-17, 1931.
- Endynomena pradiieri**
Swezey, Hawaiian Ent. Soc. P. 8: 386, 1934.
- Engelobogusia**
Townsend, J. N.Y. Ent. Soc. 40: 449-450, 1932.
- *English grain aphid, see Macrosiphum granarium (Kby.)**
- Engraver beetles, see Ips**
- Engytatus geniculatus**
Blatchley, Trans. Amer. Ent. Soc. 60: 14, 1934.
Illingworth, Hawaiian Ent. Soc. P. 8: 5, 1932; 8: 227-228, 1933.
Jones, J. Ec. Ent. 24: 327-328, 1931.
Swezey, Hawaiian Ent. Soc. P. 7: 361, 1931.
- Enhydrini**
Hatch, Univ. Okla. Biol. Surv. Pub. 2: 21, 1930.
- Enicmus tricarinatus**
nBrown, Can. Ent. 66: 22-23, 1934.
- Eniglaea apiata**
Beckwith, N.J. R. 51: 171-172, 1930.
- Enlinia**
Aldrich, P. Ent. Soc. Wash. 35: 167-168, 1933.
- Enlinia magistri**
inAldrich, PUSNM 81(9): 5-6, 1932.
- Ennomos alniaria**
bClausen, USDA C. 168: 18-19, 1931.
- Ennomos subsignarius (Hbn.) (Elm spanworm)***
biKnull, J. Ec. Ent. 25: 1201-1203, 1932.
Twinn, Ent. Soc. Ont. R. 64: 77, 1933.
- Enochrus collinus**
nBrown, Can. Ent. 63: 118, 1931.
- Enochrus nebulosus**
Williams, Hawaiian Ent. Soc. P. 8: 16, 1932.
- Enoclerus liljebladi**
Knull, Ent. News 45: 207, 1934.
- Enoclerus sphegeus**
Blackman, N.Y. St. Col. For. TB 36: 50-51, 1931.
- Enodia portlandia**
iSaunders, N.Y. St. Mus. Hdbk. 13: 174-179, 1932.
- Entechnia taurea**
Rau, Acad. Sci. St. Louis Trans. 28: 222-223, 1934.
- Entedon tachypterelli**
nGahan, J. Wash. Acad. Sci. 21: 38-39, 1931.
- biList, Col. B. 385: 61-62, 1932.
- Entedonine sp.**
Swezey, Hawaiian Ent. Soc. P. 7: 343, 1931.
- Entheus spp.**
inWilliams & Bell, Trans. Amer. Ent. Soc. 57: 260-272, 1931.
- Entomobrya guthriei**
inMills, Amer. Mus. Nov. 464: 4-5, 1931.
- Entomobrya intonsa**
inMills, Iowa St. Col. J. Sci. 6: 265, 1932.
- Entomobrya lactea, multifasciata imminuta**
inFolsom, Hawaiian Ent. Soc. P. 8: 64-66, 1932.
- Entomobrya nigriceps**
inMills, Iowa St. Col. J. Sci. 6: 268-269, 1932.
- Entomobrya pseudoperpulchra, sabulicola**
inMills, Amer. Mus. Nov. 464: 5-9, 1931.
- Entomobrya triangularis**
Mills, Iowa St. Col. J. Sci. 6: 269, 1932.
- Entomogenous fungi**
Berger, Fla. St. Hort. Soc. P. 45: 3, 133-136, 1932.
iCharles, USDA YB f. 1931: 211-214.
Ebeling, Cal. Cit. 19: 362-363, 1934.

Entomogenous fungi *Cont'd*

Hill, Yothers & Miller, Fla. Ent. 18: 1-4, 1934.

biSawyer, Mycologia, 23: 411-432, 1931.

Entomological centenaries

Osborn, Ann. Ent. Soc. Amer. 26: 201-202, 1933.

Entomological congress, see Entomologists—Meetings—International congress**Entomological program—Balancing**

Flint, J. Ec. Ent. 26: 39-45, 1933.

Entomological research

bDavis, Ind. Stencil B. 7, 1933, 13p.

Davis, J. Ec. Ent. 26: 72-79, 1933.

Headlee, J. Ec. Ent. 23: 28-35, 1930.

Wain, Amer. Fr. Grow. Mag. 53: 10, '33.

Entomological societies—B.C. Entomological Society

Glendenning, B.C. Ent. Soc. P. 30: 1-7, 1933.

Entomological societies—Economic Entomologists

Howard, Hist. of Appl'd. Ent.: 108-114, 1930.

J. Ec. Ent. 25: 17-22, 1932.

J. Ec. Ent. 26: 518-519, 1933.

Entomological societies—Entomological Society of America

Ann. Ent. Soc. Amer. 23: viii-xxiv, '30.

Entomological societies—Entomological Society of London

iCockerell, Sci. Month. 38: 332-342, '34.

Entomological societies—International Society of Ipidologists

Spessivtseff, Can. Ent. 62: 46, 1930.

Entomological societies—New Jersey**Mosquito Extermination Association**

N.J. Mos. Exterm. Assoc. P. 19: 89, '32.

Entomological societies—North Central Washington Spray Committee

Dolman, Wash. St. Hort. Assoc. P. 31: 127-133, 1933.

Entomological societies—Meetings, see Entomologists—Meetings**Entomological societies—United States & Canada**

Howard, Ent. News 41: 218, 1930.

Ent. News 42: 126-130, 1931.

Entomological technique

biBaumgartner & Payne, J. Exp. Zool. 59: 359-393, 1931.

Donohue, Ent. News 43: 133-134, '32.

Eagleston, J. Ec. Ent. 25: 936-937, '32.

Engelhardt, Bklyn. Ent. Soc. B. 28: 108, 1933.

Livereault, Ann. Ent. Soc. Amer. 27: 313-314, 1934.

Rehn, Ent. News 43: 175-177, 1932.

bStiles, Stain Tech. 9: 97-100, 1934.

Torre-Bueno, Bklyn. Ent. Soc. B. 29: 125, 213-214, 1934.

Valentine, J. Elisha Mitchell Sci. Soc. 50: 255, 1934.

iWishart, J. Ec. Ent. 23: 234-237, 1930.

Entomological technique—Artificial feeding

biFulton & Chamberlin, Science n.s. 79: 346-348, 1934.

biJellison & Philip, U.S. Pub. Health R. 48: 1081-1082, 1933.

Entomological technique—Disinfection of collections

Torre-Bueno, Bklyn. Ent. Soc. B. 29: 98, 1934.

Entomological technique—Field experiments

bHuber & Slesman, J. Ec. Ent. 27: 1166-1170, 1934.

Entomological technique—Grasshopper eggs—Fixative

Slifer & King, Science n.s. 78: 366, '33.

Entomological technique—Intravitam technique

biPayne, J. Morph. 54: 321-345, 1933.

Entomological technique—Labels

Knight, Ent. News 44: 184-185, 1933.

Torre-Bueno, Bklyn. Ent. Soc. B. 29: 26, 1934.

Entomological technique—Mosquitoes

iBoyd, Amer. J. Hyg. 16: 839-844, 1932.

Entomological technique—Mounting

iBGS., Pop. Sci. Month. 19: 77, 1931.

Brown, Ent. News 43: 272-273, 1932.

iCoogle, U.S. Pub. Health R. 49: 824-826, 1934.

Deardorf, Pop. Mech. 53: 488, 1930.

iHarrison & Usinger, Bklyn. Ent. Soc. B. 29: 168-170, 1934.

Osborn, Science n.s. 77: 587, 1933.

Torre-Bueno, Bklyn. Ent. Soc. B. 28: 219, 1933; B. 29: 25-26, 1934.

Entomological technique—Rearing

biPutnam & Shannon, P. Ent. Soc. Wash. 36: 185-216, 1934.

- biWishart & Van Steenburgh, Can. Ent.
66: 121-125, 1934.
- Entomologists**
Essig, Hist. of Ent.: 539-810, 1931.
- Entomologists—Early**
Howard, J. Wash. Acad. Sci. 20: 511,
1930.
- Entomologists—Meetings—Amer. Assoc.
Adv. Sci.**
Ent. News 41: 56-58, 1930; 42: 56-58,
1931; 44: 46-47, 1933; 45: 47-49, '34.
Science n.s. 75: 157, 1932; 79: 52-53,
102-103, 1934.
- Entomologists—Meetings—Amer. Assoc.
Ec. Ent.**
Burgess, J. Ec. Ent. 24: 920, 1931.
Burgess, Science n.s. 75: 157, 1932.
J. Ec. Ent. 26: 1-38, 1933.
- Entomologists—Meetings—Amer. Assoc.
Ec. Ent.—Eastern Branch**
J. Ec. Ent. 23: 129-130, 1930; 24: 126-
130, 1931; 25: 289-296, 1932.
- Entomologists—Meetings—Amer. Assoc.
Ec. Ent.—Pacific Slope Branch**
Scullen, J. Ec. Ent. 25: 947-948, 1932.
J. Ec. Ent. 24: 939-941, 1931.
- Entomologists—Meetings—B.C. Ent. Soc.**
Can. Ent. 63: 98, 1931.
- Entomologists—Meetings—Bklyn. Ent.
Soc.**
Bell, Bklyn. Ent. Soc. B. 25: 232-235,
1930.
Sherman, Bklyn. Ent. Soc. B. 27: 102-
106, 1932.
Siepmann, Bklyn. Ent. Soc. B. 25: 304-
305, 1930; B. 26: 101-106, 143-149,
267-268, 1931; B. 27: 68-72, 168-
172, 211-214, 1932; B. 28: 41-42,
81-85, 1933.
Smith, Bklyn. Ent. Soc. B. 28: 86, '33.
- Entomologists—Meetings—Cal. Ent. Club**
Burke, Ent. News 42: 219, 1931.
- Entomologists—Meetings—Cambridge
Ent. Club**
Dow, Psyche 37: 192, 1930; 38: 71,
194-195, 1931.
- Entomologists—Meetings—Central plant
board**
J. Ec. Ent. 27: 555, 1934.
- Entomologists—Meetings—Central States
Conference**
iOutdoor Ind. 1(3): 16, 1934.
- Entomologists—Meetings—Conn. Conf.**
Britton, Conn. B. 315: 500-502, 1930;
B. 327: 473-474, 1931; B. 338: 516,
1932.
- J. Ec. Ent. 23: 1014-1015, 1930; 24:
1312, 1931; 25: 1248, 1932.
- Entomologists—Meetings—Ent. Soc.
America**
Davis, Ann. Ent. Soc. Amer. 24: 183-
196, 1931; 25: 245-261, 1932.
Davis, Science n.s. 75: 157, 1932.
- Entomologists—Meetings—Ent. Soc.
Washington**
Greene, P. Ent. Soc. Wash. 33: 89-91,
1931.
Wade, P. Ent. Soc. Wash. 33: 47-48,
66-67, 91-92, 123-124, 188, 204-212,
1931; 34: 9-12, 1932.
Wadley, P. Ent. Soc. Wash. 34: 26-28,
46-48, 68, 84, 107-108, 128, 146-
148, 156-158, 1932; 35: 11-12, 27-
28, 43-44, 59-60, 1933.
- Entomologists—Meetings—Fla. Ent. Soc.**
Creighton, Fla. Ent. 14: 73-74, 1932.
Ziegler, Fla. Ent. 15: 6, 15, 48, 1931.
- Entomologists—Meetings—International
Congress**
Engelhardt, Bklyn. Ent. Soc. B. 28: 84-
85, 1933.
Hinds, J. Ec. Ent. 26: 29-30, 1933.
Jones, Ent. News 43: 250-251, 1932.
Maheaux, Nat. Can. 57: 188-195, 1930.
Matteson, Fla. Ent. 16: 40-45, 1932.
Ent. News 43: 105-107, 1932.
Science n.s. 76(1960 sup.): 5, 1932.
- Entomologists—Meetings—Internat. Great
Plains Conf.**
J. Ec. Ent. 27: 1107-1108, 1934.
- Entomologists—Meetings—Internat. Soc.
Sugar Cane Technologists**
Pemberton & Leonard, Ent. News 43:
195-196, 1932.
Pemberton & Leonard, J. Ec. Ent. 25:
732-733, 1932.
- Entomologists—Meetings—Kans. Ent.**
Parker, J. Kans. Ent. Soc. 4: 52, 73-75,
98-100, 1931; 5: 64, 94-95, 1932; 6:
105-108, 1933; 7: 99-102, 1934.
- Entomologists—Meetings—Lorquin Ent.**
Garth, So. Cal. Acad. Sci. B. 30: 32, '31.
- Entomologists—Meetings—New Orleans**
Ent. News 43: 46-47, 1932.

Entomologists—Meetings—N.Y. Ent. Soc.
Ruckes, J. N.Y. Ent. Soc. 39: 263-272, 1931.

J. N.Y. Ent. Soc. 38: 77-83, 213-218, 1930; 39: 493-502, 599-606, 1931.

Entomologists—Meetings—Ont. Ent. Soc.
Osburn, Can. Ent. 64: 240, 1932.

Can. Ent. 62: 22-24, 1930; 63: 50, 294-296, 1931; 64: 287, 1932.

Entomologists—Meetings—Pacific Coast
Pan-Pac. Ent. 8: 185-190, 1932.

Entomologists—Meetings—Penn. Soc.
J. Ec. Ent. 25: 145, 1932.

Entomologists—Meetings—Rocky Mountain Conference

List, Ent. News 41: 241, 311-312, 1930; 43: 193, 196, 1932; 44: 26, 1933.

List, J. Ec. Ent. 24: 1106-1107, 1931; 25: 1113-1114, 1932.

J. Kans. Ent. Soc. 3: 80, 1930.

Entomologists—Meetings—So. Cal. Ent.
Cal. Agr. Mo. B. 20: 324, 1931.

Science n.s. 76: 402-403, 1932.

Entomologists—Trips

Engelhardt, Bklyn. Ent. Soc. B. 28: 152-159, 1933.

Fullaway, Hawaiian For. & Agr. 27: 85-86, 1930.

Bklyn. Ent. Soc. B. 27: 64-65, 1932.

Can. Ent. 64: 22-24, 1932.

Ent. News 43: 49-51, 1932.

Science n.s. 76: 402, 1932.

Entomologists—Wash. Ent. Society

Howard, P. Ent. Soc. Wash. 33: 206-211, 1931.

Entomology

Ball, Ont. Dept. Agr. Ont. Exp. Farm. R. 58: 135-138, 1932.

biBequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 797-1001, 1930

Brown, Ent. Soc. Ont. R. 60: 146-157, 1930.

Buckell et al., Pac. Sci. Cong. 5, P. 5: 3577-3584, 1934.

Clark, Sci. Month. 32: 527-536, 1931.

iComstock, Hdbk. of Nature Study ed. 22: 308-457, 1931.

iCross, Country Home 58(g): 16-17, 43, 45, 46, 1934.

Doane, Common Pests, 1931, 384p.

Felt, Amer. YB f. 1929: 712-718; YB f.

1930: 714-717; YB f. 1931: 751-755; YB f. 1932: 760-763.

Felt, Sci. News Letter 17: 5, 14, 1930.
biFolsom, Entomology 4th rev. ed., [1934], 605p.

Gibson, Ann. Ent. Soc. Amer. 23: 537-542, 1930.

Hinds, J. Ec. Ent. 27: 37-52, 1934.

Hooker, USDA OES, R. on Agr. Exp. Sta. f. 1929: 40-44, 1930.

Houser, J. Ec. Ent. 25: 28-39, 1932.

Howard, Smithson. R. f. 1930: 387-393, 1931.

Linfield, Mont. R. 37: 19, 1930.

Mann, N.Y. (C.) R. 43, Pt. 1: 61-64, 1930; R. 43, Pt. 2: 41-49, 1931; R. 44, Pt. 1: 74-76, 1931.

biMetcalfe & Flint, Fund. of Ins. Life, ed. 1, 1932, 581p.

Newell, Fla. St. Pl. Bd. Bien. R. 9: 13-14, 1933.

iReinhard, Nature Mag. 15: 322-323, 1930.

Robinson, J. Ec. Ent. 24: 786-789, '31.

Roy, Nat. Can. 57: 209-220, 1930.

Sherman, J. Ec. Ent. 24: 42-50, 1931.

Wallace, Ind. Dept. Conserv. R. 13: 28-72, 1931.

iWilson, Insects & their Control, rev. ed., 1931, 383p.

biWolcott, Ec. Ent. of W.I., 1933. 688p
Wymore, Cal. Cult. 76: 404, 1931.

Ann. Ent. Soc. Amer. 23: 507-542, '30.

New Internat. YB f. 1931: 287-289; YB f. 1932: 260-263, 1933.

Entomology—Advances

Essig, Hist. of Ent.: 811-952, 1931.

Indus. & Engin. Chem. News ed. 12: 447-448, 1934; 13: 475, 1934.

Entomology—Arizona

Ross, Ariz. Ext. Proj. C. 14: 13, 1933.

Entomology—British Columbia

Atkinson, B.C. Dept. Agr. R. 26: 17-19, 1931.

iClarke, B.C. Prov. Mus. R. f. 1930: 14-15, 1931; R. f. 1933: 33-36, 1934.

Hoy, B.C. Dept. Agr. R. 28: 29-31, '33.
Kermode, B.C. Prov. Mus. R. f. 1932: 22-24, 1933.

Ruhmann, B.C. Dept. Agr. R. 25: 49-51, 1930; R. 27: 34-38, 1932; R. 28: 39-40, 1933.

Entomology—Buildings

- iQuayle, J. Ec. Ent. 26: 288-291, 1933.
 iVan Duzee, Pan-Pac. Ent. 8: 97-101, 1932.
 iCal. Cit. 18(1): 5, 24, 1932.
 Science n.s. 76: 290, 1932.

Entomology—California

- Essig, Hist. of Ent.: 12-47, 54-81, '31.
 Essig, Pan-Pac. Ent. 10: 1-11, 49-58, 97-106, 1934.
 Howard, Hist. of Appl'd. Ent.: 151-158, 1930.
 Hutchison, Cal. R. f. 1929-1930: 34-37, 63-69, 1931; R. f. 1930-1931: 67-72, 1932.
 Jacobson, Cal. Agr. Mo. B. 19: 806-807, 1930.
 Mackie, Cal. Agr. Mo. B. 19: 831-848, 1930; B. 21: 474-488, 1932; B. 23: 396-418, 1934.

Entomology—Canada

- bAtkinson, Sci. Agr. 12: 200-203, 1931.
 Brown, Que. Soc. Prot. Pl. R. 25/26: 140-162, 1934.
 Gilbert, Ent. Soc. Ont. R. 64: 60-62, 1933.
 Pickett, Maritime Farm. 39(8): 6, 1934.
 Twinn, Sci. Agr. 10: 754-758, 1930.
 Weir, Can. Min. Agr. R. f. 1930-1931: 124-149; R. f. 1931-1932: 166-193; R. f. 1932-1933: 47-55; R. f. 1933-1934: 54-66.

Entomology—Colorado

- Gillette, Col. R. 43: 30-33, 1930; R. 44: 35-36, 1931.
 List, Col. R. 45: 42-47, 1932.
 Sandsten, Col. R. 47: 17-19, 1934.

Entomology—Connecticut

- iBritton, Conn. B. 318: 753-754, 757-758, 1930; B. 327: 461-475, 535-542, 1931; B. 349: 365-460, 1933.
 Slate, Conn. B. 347: 275-277, 1933.

Entomology—Delaware

- McCue, Del. Ext. B. 17: 53-58, 1933; B. 20: 38-46, 1934.

Entomology—Educational value

- Detwiler, Ent. Soc. Ont. R. 61: 35-38, 1931.

- iOutdoor Ind. 1(9): 17, 1934.

Entomology—Experimental Data

- Pierce, J. Ec. Ent. 27: 185-190, 1934.

Entomology—Extension

- Crosby, J. Ec. Ent. 27: 677-678, 1934.
 Graham, J. Ec. Ent. 25: 534-537, 1932; 27: 685-686, 1934.
 iHodgkiss, J. Ec. Ent. 27: 669-676, '34.
 Hooker, USDA Exp. Sta. R. f. 1931: 45-51, 1932.
 iHopkins, J. Ec. Ent. 26: 683-686, 1933.
 Jones, J. Ec. Ent. 25: 532-534, 1932; 26: 680-682, 1933.
 Lipman, N.J. R. 50: 27-30, 1929.
 Lyle, J. Ec. Ent. 26: 695-696, 1933.
 iSkinner & Coleman, Ind. Ext. R. 21: 46, 1933.
 Stearns, J. Ec. Ent. 27: 679-685, 1934.
 Walker, J. Ec. Ent. 26: 677-679, 1933.
 Wolcott, J. Ec. Ent. 24: 131-141, 1931.
 iUSDA Ext. Serv. Rev. 3: 88, 1932.

Entomology—Franklin, Benjamin—Comments

- Holloway, J. Ec. Ent. 23: 1007-1008, '30.

Entomology—Guam

- iVandenberg, Guam, R. f. 1930-1932: 20-22, 1933.

Entomology—Harvard Mus. Comp. Zoology

- Banks, Harv. Coll. Mus. Comp. Zool. R. f. 1929-1930: 16-20; R. f. 1930-1931: 19-22; R. f. 1931-1932: 19-21; R. f. 1933-1934: 18-23.

Entomology—Hawaii

- Agee, Hawaiian Sugar Pl. Assoc. P. 50: 122-131, 1930.
 Brown, Hawaii Bd. Comm. Agr. & For. Bien. R. f. 1930: 12-13, 1931.
 Cartwright, Hawaiian For. & Agr. 29: 98, 1932.
 Chock, Hawaiian For. & Agr. 28: 79-81, 1931; 29: 119-124, 1932.
 Chock & Fullaway, Hawaiian For. & Agr. 29: 177-184, 1932.
 Fullaway, Hawaiian For. & Agr. 27: 45-50, 1930; 28: 7-9, 1931; 29, 21-23, 1932; 30: 55-59, 1933.
 iFullaway, Hawaii Bd. Comm. Agr. & For. Bien. R. f. 1930: 74-83, 1931.
 Illingworth, Hawaiian Ent. Soc. P. 7: 408-409, 1931.
 Judd, Hawaii, R. of Gov. f. 1931: 59-60; R. f. 1932: 70-71; R. f. 1933: 30.
 Pemberton, Hawaiian Ent. Soc. P. 8: 505-514, 1934.

Entomology—Hawaii Cont'd

Poindexter, Hawaii, R. of Gov. f. 1934: 36.

Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 425-432, 1931.

Whitney & Fullaway, Hawaiian For. & Agr. 28: 40-42, 1931.

Hawaii Bd. Comm. Agr. For Bien. R. f. 1930: 12-13, 1931.

biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields, 1931. 400p.

Entomology—History

Baker, Ent. Soc. Ont. R. 60: 33-46, '30.

biEssig, A History of Entomology, 1931. 1029p.

Howard, Sci. Month. 31: 5-18, 1930.

biHoward, Smithson. Misc. Coll. 84, 1930, 564p.

Entomology—Idaho

Iddings, Ida. B. 179: 29-31, 1931; 192: 30-31, 1932.

Wakeland, Ida. B. 170: 20-21, 1930.

Entomology—Illustrations

Walton, P. Ent. Soc. Wash. 34: 67-68, 1932.

Entomology—Indiana

iDavis, Ind. Acad. Sci. P. 39: 291-303, 1930; P. 40: 307-320, 1931; P. 41: 43-70, 1932; P. 42: 213-226, 1933.

iSkinner, Ind. Ext. R. 19: 40-41, 1930; R. 20: 44-46, 1931.

Wallace, Ind. YB f. 1930: 464-497; YB f. 1931: 798-842; YB f. 1932: 287-327; YB f. 1934: 599-609.

Entomology—Iowa

iBuchanan & Stevenson, Iowa R. f. 1933: 68-76.

iDrake, Iowa Dept. Agr. YB 30: 155-169, 1930.

bHendrickson, Iowa St. Coll. J. Sci. 5: 195-209, 1931.

Thornburg, Iowa Dept. Agr. YB 30: 14-15, 1930; YB 32: 11-12, 1931.

Entomology—Kansas

Dean, Kans. St. Hort. Soc. Bien. R. 41: 35-38, 1932.

Liston, Kans. Ent. Comm. Bien. R. 12: 16-24, 1931.

Mohler, Kans. St. Bd. Agr. Bien. R. 27: 286-287, 1931; R. 28: 216-217, 1933.

Kans. St. Bd. Agr. Bien. R. 27: 286-287, 1931.

Entomology—Mexico

iInda, La Hacienda 26: 301-303, 1931.

biMexico Agr. & Fomento. Principales Plagas, 1930, 375p.

Entomology—Michigan

Hutson, Mich. R. 47: 210-222, 1934.

Pettit, Mich. St. Bd. Agr. R. 69: 205-221, 1930.

iPettit, Mich. R. 46: 225-235, 1933.

Entomology—Missouri

Haseman, Missouri B. 285: 70-76, '30.

Thomasson, Missouri Ext. C. 269: 61-62, 1931; C. 310: 40, 1934.

Entomology—Montana

Cooley, Mont. B. 238: 5-6, 1930.

Linfield, Mont. R. 41: 36-40, 1934.

iStrand, Mont. B. 269, 1932, 28p.; B. 294, 1934, 40p.

Entomology—Nantucket, Mass.

iJohnson, Nantucket Maria Mitchell Assoc. 3(2): 3-159, 1930.

Entomology—Nebraska

Burr, Neb. R. 46: 19-21, 1933; R. 47: 18, 1934.

Entomology—Newfoundland

Bruton, Ent. News 41: 34-38, 1930.

Entomology—Nomenclature, see Zoology—Nomenclature**Entomology—North America**

Ann. Ent. Soc. Amer. 23: 507-542, '30.

Entomology—North Carolina

Leiby, N.C. Dept. Agr. Bien. R. f. 1930-1931: 56-64.

Metcalfe, N.C. R. 53: 153-157, 1930; R. 54: 106-112, 1931.

iSchaub, N.C. Ext. Farm News 15(6): 9, 1930; 18(7): 4-5, 1933.

Entomology—Nova Scotia

Goucher, N.S. Dept. Agr. R. f. 1932: 134-135, 1933.

Pickett, N.S. Fr. Grow. Assoc. R. 68: 19-22, 1931; R. 69: 219-220, 1932.

Pickett, Maritime Farm. 38(7): 12, '33.

N.S. Dept. Agr. R. f. 1932-1933: 62-71, 1934.

Entomology—Oklahoma

Hixson, Okla. R. f. 1932-1934: 256-259.

Sanborn, Okla. R. f. 1930-1932: 244-247.

iTrent, Okla. Ext. C. 285: 49-52, 1930; C. 295: 52-56, 1932; C. 301: 43-46, 1933; C. 313, 48-51, 1934.

Entomology—Ontario

- Brown, Ent. Soc. Ont. R. 61: 86-95, 1931.
Kennedy, Ont. Agr. Coll. & Exp. Farm R. 56: 116-122, 1930; R. 57: 124-128, 1931; R. 58: 135-138, 1932.

Entomology—Pacific region

- iCockerell, Mid-Pac. Mag. 39: 445-448, 1930.

Entomology—Popular

- Adams, J. Ec. Ent. 27: 687-694, 1934.
iBeard, Amer. Boys' Bk. Bugs, 1932, 365p.
iBurton, Pop. Sci. Month. 119(1): 54-55, 134, 1931.
iCarr, Nat. Hist. 32: 195-206, 1932.
Eyer, Purdue Agr. 28: 19, 25, 1933.
iSparks, Pop. Mech. 58: 938-940, 132A, 134A, 1932.
iWeed, Insect Ways, 1930, 325p.
biCal. St. Teach. Coll. Insects, 1933, 304p.
iUSDA Ext. Serv. Rev. 3: 88, 1932.

Entomology—Puerto Rico

- Colón, P.R. Dept. Agr. & Comm. Inf. An. Span. ed. f. 1931-1932: 88-90.
biForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1): 1-171, 1930; (1 sup): 339-394, 1931.
biKlots, N.Y. Acad. Sci. Sci. Surv. P.R. 14(1): 1-107, 1932.
Leonard, J. Ec. Ent. 24: 141-151, 1931.
Leonard, P.R. Dept. Agr. 17(1): 5-96, 1933.
Van Volkenberg, P.R. Mayaguez R. f. 1931: 25-27, 1932.
bWolcott, P.R. Dept. of Agr. J. 17: 265-270, 1933.

Entomology—Quebec

- Lavoie, Que. Dept. Agr. R. f. 1929-1930: 150-152; R. f. 1931-1932: 151-154; R. f. 1932-1933: 111-115.
iRoy, Que. Dept. Agr. R. f. 1933-1934: 104-107.

Entomology—South Dakota

- Severin, S.Dak. R. f. 1933: 25-27; R. f. 1934: 38-40.

Entomology—Statistical methods—Value

- bLockwood, J. Ec. Ent. 24: 971-978, '31.

Entomology—Systematic

- Cushman et al., P. Ent. Soc. Wash. 35: 112-115, 1933.

- Mackie, Cal. Agr. Mo. B. 22: 471, 1933.
Weir, Can. Min. Agr. R. f. 1930-1931: 133-134; R. f. 1931-1932: 174-175; R. f. 1932-1933: 51; R. f. 1933-1934: 60.

Entomology—Teaching

- iDeLong, J. Ec. Ent. 27: 53-58, 1934.
Goucher, N.S. Dept. Agr. R. f. 1931: 130-131, 1932.
iHerod, Purdue Agr. 25: 81, 88, 92, '31.
Howard, Hist. of Appl'd Ent.: 70-78, 1930.
Riley et al., J. Ec. Ent. 24: 27-31, 1931.
iUSDA Ext. Ser. Rev. 4: 77-78, 1933.

Entomology—Text books

- iComstock, Comstock & Herrick, Man. for Study of Ins. rev. ed. 19, 1930, 401p.
biCal. St. Teach. Coll. Insects, 1933, 304p.

Entomology—U.S.

- Howard, Hist. of Appl'd Ent.: 83-105, 1930.
Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash. D.C. Doc. Material 2: 195-221, 1930.

Entomology—U.S.—Bureau

- Eisenhower & Chew, USDA Misc Pub. 88: 69-73, 121-124, 1930.
Kennedy, Ann. Ent. Soc. Amer. 23: 610, 1930.
Mansuy, Americana Ann. f. 1932: 250-255.
Marlatt, USDA Ent. R. f. 1930, 76p.; R. f. 1931, 87p.; R. f. 1932, 38p.; R. f. 1933, 47p.
Martin, Americana Ann. f. 1933: 282-285.
Metcalf & Phillips, Science n.s. 79: 253, 1934.
Ruggles, Minn. Hort. 62: 13, 1934.
Strong, USDA Ent. R. f. 1934, 20p.
bWeber, Bur. of Ent., 1930, 177p.
J. Ec. Ent. 27: 294-296, 1934.

Entomology—West Indies

- biWolcott, Ec. Ent. of W.I., 1933. 688p.

Entomology—West Virginia

- Fromme, W.Va. B. 263: 19-23, 1934.

Entomology—Wisconsin

- Chambers, Wis. Cranb. Grow. Assoc. R. 48: 10-13, 1934.

Entomology—Yucatan

iBequaert, Carnegie Inst. Wash. Pub.
431: 547-574, 1933.

Entomology in art

Barber & Wade, J. N.Y. Ent. Soc. 41:
101-103, 1933.

iClarke, Sci. News Letter 22: 149, 1932.

iRodeck, Ann. Ent. Soc. Amer. 25: 689-
693, 1932.

iPop. Mech. 60: 164, 1933.

Entomophagous insects

Baldur, Ill. St. Acad. Sci. Trans. 27:
149, 1934.

Entomoscelis adonidis (Pallas) (Red turnip beetle)*

iDustan, Can. Dept. Agr. B. 161 n.s.:
47, 1932.

Gibson, Can. Dept. Agr. B. n.s. 99 rev.:
34, 1934.

Entylia carinata

Kinsbury, Amer. Dahlia Soc. B. 57: 31,
1931.

Eobates, E. morrisoni

nDrake & Harris, Wash. Biol. Soc. P.
47: 175-176, 1934.

Eodinarthrum, E. pusillum

inMartynov, PUSNM 79(25): 16-18, '31.

Eodolichocolon

inTownsend, J. N.Y. Ent. Soc. 40: 478, '32.

Eoerigone tridentata

Crosby, J. Ec. Ent. 25: 134, 1932.

Eomenacanthus stramineus (Nitz.) (Chicken body louse)*

iBishopp & Wood, USDA FB 801 rev.:
10-11, 1931.

Buckley, USDA FB 1652: 54, 1931.

Buckley & Bunyea, USDA FB 1652
rev.: 58-59, 1933.

Caler, J. Kans. Ent. Soc. 4: 78, 1931.

iLamon & Kinghorne, Pract. Poult.
Prod. rev.: 329-331, 1930.

Mohler, USDA BAI R. f. 1934: 52.

iPatterson, Vet. Med. 25: 349-350, 1930.

Wilson, Science n.s. 77: 490, 1933.

Exenos laboulbenei

biParker & Smith, Ann. Ent. Soc. Amer.
26: 217-233, 1933.

biParker & Smith, Ann. Ent. Soc. Amer.
27: 468-479, 1934.

Epameibaphis atricornis

inGillette & Palmer, Ann. Ent. Soc.
Amer. 26: 348-350, 1933.

Epameibaphis frigidae

Sweet, J. Ent. & Zool. 22: 84, 1930.

Epantius, E. obscurus

iBlaisdell, Trans. Amer. Ent. Soc. 58:
91-97, 1932.

Epargyreus perkinsi

Siepmann, Bklyn. Ent. Soc. B. 28: 42,
1933.

Epargyreus tityrus (Silver spotted skipper)

iMcDaniel, Mich. Sp. B. 243: 45, 1933.

iPettit, Mich. Ent. R. f. 1930: 12.

iPettit, Mich. St. Bd. Agr. R. 69: 214,
1930.

Saunders, N.Y. St. Mus. Hdbk. 13:
263-265, 1932.

Epeolus ainsliei

nCrawford, P. Ent. Soc. Wash. 34: 74,
1932.

Ephemera blanda

nTraver, Elisha Mitchell Sci. Soc. J. 47:
104-109, 1932.

Ephemera vulgata

iPeña, La Hacienda 25: 74, 1930.

Ephemerella inconstans, see Ephemerella vernalis**Ephemerella spp.**

inIde, Can. Ent. 62: 212-213, 1930.

inMcDunnough, Can. Ent. 63: 30-42,
61-65, 82-84, 187-197, 201-216, '31.

niMcDunnough, Can. Ent. 66: 154-161,
1934.

iSteger, Psyche 38: 27-35, 1931.

nTraver, Elisha Mitchell Sci. Soc. J. 47:
149-155, 164-175, 1932.

iWalley, Can. Ent. 62: 12-20, 1930.

Ephemeridae

iIde, Can. Ent. 62: 204-213, 1930.

Neave, Can. Field-Nat. 46: 54-55, '32.

biPickwell, Cal. St. Teach. Coll. Insects:
154-157, 1933.

bSpieth, Ent. News 43: 103-104, 1932.

biSpieth, J. N.Y. Ent. Soc. 41: 55-86,
327-390, 1933.

biTraver, Elisha Mitchell Sci. Soc. J. 47:
85-161, 163-236, 1932; J. 48: 141-
206, 1933.

biMacDermot, Can. Med. Assoc. J. 31:
408-410, 1934.

McDunnough, Can. Ent. 63: 82-93,
1931.

Ephemeroptera

iMcDunnough, Can. Ent. 64: 209-215, 1932; 65: 155-158, 1933; 66: 154-164, 181-188, 1934.

Ephemeroptera—Gulf of St. Lawrence

iMcDunnough, Can. Ent. 62: 54-62, 1930; 64: 78-81, 1932.

Ephemeroptera—Timagami, Canada—List

Brown, Can. Ent. 66: 211, 1934.

Ephestia cautella (Walk.) (Almond moth)*

iKeifer, Cal. Agr. Mo. B. 20: 619-621, '31.
Marlatt, USDA Ent. R. f. 1930: 61.
iSimmons, Reed & McGregor, USDA C. 157: 36-38, 1931.

Ephestia elutella (Hbn.) (Tobacco moth)*

bBack & Reed, J. Ec. Ent. 23: 1004-1006, 1930.
Marlatt, USDA Ent. R. f. 1931: 68-69; R. f. 1932: 27.
Reed, P. Ent. Soc. Wash. 36: 125, 1934.
biReed, Livingstone & Morrill, USDA C. 269, 1933, 16p.
New Internat. YB f. 1931: 288.
USDA YB f. 1932: 71.

Ephestia elutella—Bait traps

Donohoe & Barnes, J. Ec. Ent. 27: 1071-1072, 1934.

Ephestia elutella—Parasites

Reed, et al, USDA C. 269: 12, 1933.

Ephestia figulilella Greg. (Raisin moth)*

Donohoe et al, J. Ec. Ent. 27: 1072-1075, 1934.
iKeifer, Cal. Agr. Mo. B. 20: 621-622, '31.
biLockwood, Cal. Agr. Mo. B. 22: 339-340, 1933.
iMackie, Cal. Agr. Mo. B. 21: 311-315, 1932.

Marlatt, USDA Ent. R. f. 1933: 33.
Moulton, Cal. Agr. Mo. B. 20: 754, '32.

Ephestia figulilella—Hosts

Donohoe & Barnes, J. Ec. Ent. 27: 1075-1077, 1934.

Ephesia figulilella—Parasites

Donohoe & Barnes, J. Ec. Ent. 27: 1071-1072, 1934.

Ephestia figulilella—Traps—Bait

Donohoe & Barnes, J. Ec. Ent. 27: 1067-1072, 1934.

Ephesia figulilella—Traps—Light—Colored

biHerms & Ellsworth, J. Ec. Ent. 27: 1062, 1934.

Ephestia kuehniella Zell. (Mediterranean flour moth)*

Back & Cotton, USDA FB 1260, rev.: 16-17, 1930.

iBrindley, Ann. Ent. Soc. Amer. 23: 741-749, 1930.

iDoane, Common Pests: 331-333, 1931.
Gray, Ent. Soc. Ont. R. 65: 67, 1934.
Gray, Que. Soc. Prot. Pl. R. 25/26: 48, 1934.

Haas, Millers Rev. 94(1): 26, 1930.

iHerrick & Griswold, N.Y. (C) Ext. B. 202, rev.: 54-55, 1934.

Hodges, Nat. & Amer. Miller 62(3): 46, 1934.

Keifer, Pan-Pac. Ent. 8: 156, 1932.

iMcDaniel, Mich. Quar. B. 16: 171, '34.

biMex. Agr. & Fomento, Principales Plagas: 236-237, 1930.

bPayne, Ecol. Mono. 4: 1-46, 1934.

iRessler, Nat. & Amer. Miller 62(3): 43, 1934.

iSanderson, Ins. Pests Farm, ed. 3: 484-486, 1931.

biSpeicher, Penn. Acad. Sci. P. 5: 79-82, 1931.

Twinn, Ent. Soc. Ont. R., 64: 80, 1933.

Twinn, Que. Soc. Prot. Pl. R. 25/26: 53-56, 1934.

Ephestia kuehniella—Bacterial diseases

bEllinger & Chorine, Internat. Corn Borer Invest. Sci. R. 3: 37-38, 1930.

Ephestia kuehniella—Fumigants

biCotton, J. Ec. Ent. 25: 1090-1103, 1932.

Ephestia kuehniella—Parasites

Diamond, Ent. Soc. Ont. R. 60: 84-89, 1930.

biPayne, Biol. B. 65: 187-205, 1933.

Peterson, USDA TB 215: 4, 1930.

Ephestia kuehniella—Traps—Bait

Donohoe & Barnes, J. Ec. Ent. 27: 1071-1072, 1934.

Ephialtes sanguineipes

Keifer & Jones, Cal. Agr. Mo. B. 22: 387, 1933.

iMcKenzie, Cal. Agr. Mo. B. 22: 412, 1933.

Ephuta tholosa

nDow, Bost. Soc. Nat. Hist. Occ. Pap. 8: 1-2, 1931.

- Ephydra bruesi**
n Cresson, Trans. Amer. Ent. Soc. 60: 215-216, 1934.
- Ephydra gracilis**
Aldrich, J. Ec. Ent. 27: 239, 1934.
- Ephydra hians as food**
i Essig, Hist. of Ent.: 31-33, 1931.
Essig, Sci. Month. 38: 184-185, 1934.
- Ephydra mexicana**
n Cresson, Trans. Amer. Ent. Soc. 60: 214-215, 1934.
- Ephydra riparia**
Cresson, Trans. Amer. Ent. Soc. 56: 113-114, 1930.
- Ephydra salina**
in Curran, Amer. Mus. Nov. 492: 7-8, '31.
- Ephydra thermophila**
n Cresson, Trans. Amer. Ent. Soc. 60: 215, 1934.
- Ephydra tibetensis**
n Cresson, Conn. Acad. Arts & Sci. Mem. 10: 2-3, 1934.
- Ephydridae**
bin Cresson, Trans. Amer. Ent. Soc. 56: 93-131, 1930; 58: 1-34, 1932; 60: 199-222, 1934.
Cresson, Ent. News 42: 104-108, 168-171, 1931; 44: 65-70, 1933.
Cresson, Conn. Acad. Arts & Sci. Mem. 10: 1-4, 1934.
- Ephydroschinis raymenti**
n Curran, Amer. Mus. Nov. 422: 1-2, '30.
- Epiaeschna heros**
b Byers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 256-257, 1930.
Davis, J. N.Y. Ent. Soc. 39: 493, 1931.
- Epibates muricatus, see Eclimus muricatus**
- Epiblema otiosana**
i Decker, J. N.Y. Ent. Soc. 40: 503-509, 1932.
- Epiblema strenuana—Parasites**
Allen & Lott, P. Ent. Soc. Wash. 32: 135-136, 1930.
Pepper & Driggers, Ann. Ent. Soc. Amer. 27: 595-598, 1934.
- Epicaerus cognatus**
Hope, Cal. Dept. Agr. Sp. Pub. 115: 160, 1932.
bi Mex. Agr. & Fomento. Principales Plagas: 170-172, 1930.
Olmedo, Cal. Dept. Agr. Sp. Pub. 115: 126, 1932.
- Epicaerus lasalanus, uniformus**
n Tanner, Utah Acad. Sci. P. 11: 287-288, 1934.
- Epicauta diversipubescens** 333-334, elongatocalcarata 328-329, excavatifrons 330.
n Maydell, Trans. Amer. Ent. Soc. 60: 1934.
- Epicauta heterodera**
Tissot, Fla. Ent. 16: 30, 1932.
- Epicauta lemniscata**
Ingram & Douglas, J. Ec. Ent. 25: 71-74, 1932.
- Epicauta magnomaculata**
n Martin, Pan-Pac. Ent. 8: 169-170, '32.
- Epicauta marginata (F.) (Margined blister beetle)***
Brannon, J. Ec. Ent. 27: 1103, 1934.
- Epicauta mutchleri** 331-332, nigropilosa 332-333, pacifica 330-331
n Maydell, Trans. Amer. Ent. Soc. 60: '34.
- Epicauta pennsylvanica (Deg.) (Black blister beetle)***
Bailey, Vt. Dept. Agr. B. 42: 13, 1934.
i Baribeau, Que. Min. de l'Agr. B. 110: 52, 1932.
Beal, N.Y. (C.) Ext. B. 212: 29-30, '32.
i Dustan, Can. Dept. Agr. Ent. B. 32: 68-69, 1932.
Fluke, Wis. Hort. 22: 45, 1931.
i Hansen, Nature Mag. 16: 302-303, '30.
Post, Amer. Soc. Hort. Sci. P. 28: 396-397, 1932.
Sheaffer, Ind. Dept. Conserv. Pub. 103: 45, 1930.
- Epicauta piceiventris, rehni**
n Maydell, Trans. Amer. Ent. Soc. 60: 327-329, 1934.
- Epicauta sericea**
bi Sorenson, Utah C. 98: 16-17, 1932.
- Epicauta spp.**
Davis, Ind. Acad. Sci. P. 40: 312-313, 1931.
bi Mex. Agr. & Fomento. Principales Plagas: 166-167, 1930.
Wallace, Ind. Dept. Conserv. R. 13: 51, 1931.
- Epicauta vittata (F.) (Striped blister beetle)***
i Snodgrass, Smithsonian Sci. Ser. 5: 22-25, 1930.
Tissot, Fla. Ent. 16: 30, 1932.

- Epicnaptera americana** (Lappet moth)*
iMcDaniel, Mich. Sp. B. 243: 28, 1933.
- Epicordulia regina**
bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 259, 1930.
- Epidapus scabies**
Spencer, B.C. Ent. Soc. P. 29: 19-20, 1932.
- Epidiaspis piricola**
Burke, Nat. Shade Tree Conf. P. 9: 53, 1933.
Essig, Hist. of Ent.: 144, 1931...
Keifer, Cal. Agr. Mo. B. 20: 345, 1931.
- Epiglaea apiata**
Beckwith, Amer. Cramb. Grow. Assoc. P. 60: 17, 1930.
Burdette, N.J. Dept. Ent. R. f. 1930: 171-172, 1931.
- Epigrimyia townsendi**
nCurran, Amer. Mus. Nov. 456: 22-23, 1931.
- Epilachna borealis** (F.) (Squash beetle)*
Britton, Conn. B. 344: 165, 1933.
- †Epilachna varivestis** Muls. (Mexican bean beetle)*
iAmos, Purdue Agr. 26: 142, 1932.
Back, USDA B. 1275: 14-15, 1930.
Badertscher, Bean-bag, 14(11): 10-11, 1932.
iBailey, Vt. Dept. Agr. Ins. Control Div. C. 9, 1933, 4p.
Bailey, Vt. Comm. Agr. Bien. R. 17: 69-70, 1934.
iBerly, S.C. C. 43: 15-17, 1930.
Brannon, J. Ec. Ent. 25: 1112-1113, 1932.
bBritton, Conn. B. 315: 581-585, 1930; B. 327: 577, 1931; B. 344: 83, 1933.
iBritton, Conn. Veg. Grow. Assoc. R. 17: 49-50, 1930; R. 18: 40, 1931; R. 21: 41-42, 1934.
Burdette, N.J. R. 50: 180-183, 1929; R. 51: 169, 1930; R. 52: 199, 1931.
Burdette, N.J. St. Hort. Soc. P. f. 1930: 156-158, 1931; P. f. 1931: 157-158.
biBurgess, Ohio J. Sci. 32: 249-258, 1932.
Caffrey, Md. Agr. Soc. R. 19: 275, '34.
iCocks, Conn. (Storrs) Ext. B. 185: 3, 1933.
iCompton, Ill. C. 391: 36-37, 1932.
iCooper, Ky. Ext. C. 257, 1932. 4p.
- Cory, Md. Ext. Serv. Inf. Cd. 24 rev., 1929.
Cory, Md. Agr. Soc. R. 14: 389-392, 1930.
Cory & Sanders, Md. Ext. R. 15: 65-66, 1930.
Cory et al, J. Ec. Ent. 23: 146-149, '30.
Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 31-33, 1933; B. 278: 27-28, 1934.
Crosthwait, Peninsula Hort. Soc. Trans. 46: 18, 1932; 47: 76-77, 1933.
Davis, Ind. Hort. Soc. Trans. 69: 56, 1930.
iDavis, Ind. Ext. B. 186: 10-11, 1932.
biDeLong, Ohio J. Sci. 34: 194, 1934.
iDibble, Mich. Ext. B. 138: 1934, 4p.
Doane, Common Pests: 209-210, 1931.
Douglass, J. Ec. Ent. 23: 645-646, '30.
iDouglass, N. Mex. B. 199, 1932, 14p.
biDouglass, Ecology 14: 286-297, 1933.
biDouglass, J. Agr. Res. 46: 579-605, '33.
biDouglass, USDA TB 376, 1933, 46p.
Dulaney, Peninsula Hort. Soc. Trans. 45: 31, 1931.
iDustan, Can. Dept. Agr. Ent. B. 32: 35-36, 1932.
Dustan, Can. Hort. Fr. ed. 57: 27-28, 1934.
Eddy, S.C. R. 43: 66-67, 1930.
Eddy & Clarke, S.C. C. 39: 1930, 16p.
Friend, Conn. Veg. Grow. Assoc. R. 19: 25-27, 1932; R. 20: 70, 1933.
biFriend & Turner, Conn. B. 332: 71-108, 1931.
Fromme, W.Va. B. 263: 23, 1934.
iGilbert & Popenoe, USDA FB 1371, rev.: 11-12, 1930.
iHarding, Ec. Geog. 9: 273-278, 1933.
Hedrick, N.Y. (Gen.) R. 49: 69-70, 1930; R. 50: 66, 1931; R. 51: 73-74, 1932.
iHerrick, N.Y. Dept. Agr. & Markets B. 240: 64-65, 1930.
Hill, Wyo. R. 41: 28-29, 1931.
iHoward, USDA FB 1624, 1930, 14p.
iHoward, USDA YB f. 1932: 270-271.
Howard, Ohio Veg. Grow. Assoc. P. 18: 140-142, 1933.
Howard & Brannon, Va. Truck B. 70: 801-808, 1930.

***Epilachna varivestis* Muls. Cont'd**

Howard et al, J. Ec. Ent. 26: 123-129, 1933.

Huckett, J. Ec. Ent. 25: 620-625, 1932.

iHuckett, N.Y. (Gen.) C. 125: 1-7, '32.

Jones, Ohio Veg. Grow. Assoc. P. 15: 54-57, 1930.

iKnull, Penn. Dept. Agr. B. 13(4), 1930, 10p.

Knull, Ent. News. 45: 209, 1934.

iList, Cal. Agr. Mo. B. 19: 235-238, '30.

Marcovitch, Tenn. C. 28, 1930, 2p.

biMarcovitch & Stanley, Ann. Ent. Soc. Amer. 23: 666-685, 1930.

Marlatt, USDA Ent. R. f. 1930: 24;

R. f. 1931: 31-33; R. f. 1932: 15; R.

f. 1933: 19.

biMex. Agr. & Fomento. Principales Plagas: 82-83, 1930.

biMiller, J. Ec. Ent. 23: 945-955, 1930.

Mumford, Ill. R. 42: 148, 1929; R. 45:

140, 1932; R. 46: 155-156, 1933.

Nissley, Rur. N.Y. 93: 427, 1934.

iO'Kane, N.H. Agr. R. f. 1931-32: 101-103.

Parks, Ohio Veg. Grow. Assoc. P. 16: 162-163, 1931.

Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 3(6): 1-3, 1932.

iPrice, Ky. Ext. C. 257, 1932, 4p.

Ruiz, Rev. Unidas 47(7): 31-33, 1931.

Sanders & Langford, Peninsula Hort.

Soc. Trans. 44: 168-170, 1930.

Sanderson, Ins. Pests Farm, ed. 3: 184-189, 1931.

iSherman, S.C. R. 44: 66-67, 1931; R. 45: 76-78, 1932; R. 46: 85-87, 1933.

Sherman & Todd, S.C. R. 47: 63-64,

1934.

Skinner, Ind. R. 46: 26, 1933.

Skinner & Coleman, Ind. Ext. R. 22: 50, 1933.

iSlate, Conn. B. 322: 122-123, 1931; B. 337: 463-464, 1932; B. 347: 275,

1933; B. 357: 123-124, 1934.

Sweetman, J. N.Y. Ent. Soc. 38: 423-452, 1930.

biSweetman & Fernald, Mass. B. 261, 1930, 32p.

Swezey, Hawaiian Ent. Soc. P. 7: 365, 1931.

Symons, Md. Ext. Serv. Inf. Cd. 29, 1930.

Symons, Md. Ext. R. 16: 72-73, 1930.

Symons, Univ. Md. & St. Bd. Agr.

Bien. R. f. 1928-30: 116.

Turner, J. Ec. Ent. 25: 617-620, 1932,

iTurner & Friend, Conn. B. 349: 455, 1933; B. 360: 481-482, 1934.

iTurner & Friend, Conn. C. 88: 17-34, 1933.

biTurner & Friend, J. Ec. Ent. 26: 115-123, 1933.

Twinn, Que. Soc. Prot. Pl. R. 23/24: 153, 1932.

Twinn, Ent. Soc. Ont. R. 65: 118, 1934.

Violette, Maine For. Com. R. 19: 71, 1932.

Wallace, Ind. Dept. Conserv. R. 11: 56, 1929.

Wallace, Ind. YB f. 1930: 483.

Wallace, Ind. Dept. Conserv. R. 13: 52-53, 1931.

Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 26-27, 1932.

Wallace et al, Ind. Dept. Conserv. R. 14: 53-54, 1932.

biWilcoxon & Hartzell, Boyce Thompson Inst. Contrib. 3: 1-12, 1931.

bWoodbury, Nat. Cannery Assoc. Bur. Raw Prod. Res. Mem. Com. Sci.

Res. Jan. 1933: 112-113.

***Epilachna varivestis*—Barium fluosilicate**

Market Grow. J. 46: 249, 1930.

***Epilachna varivestis*—Drought**

Howard, J. Ec. Ent. 24: 660-662, 1931.

***Epilachna varivestis*—Dusting**

iWoodruff, South Cult. 88(6): 9, 1930.

***Epilachna varivestis*—Losses**

McHatton, Country Gentl. 95(3): 145, 1930.

***Epilachna varivestis*—Magnesium arsenate**

iBryan, South Cult. 88(1): 3, 1930.

Friend, N.H. Hort. Soc. R. Meet. Manchester, Dec. 8, 1932: 73-79.

iGilbert & Popenoe, USDA FB 1371, rev.: 11-12, 1934.

Lutken, S.C. Wkly. News Notes 19: 52, 1931.

Lutken, South Cult. 90(5): 9, 1932; 91(6): 14, 1933.

- Nissley, Amer. Agr. 129: 262, 1932.
- Epilachna varivestis—Parasites**
 Plummer & Landis, Ann. Ent. Soc. Amer. 25: 695-708, 1932.
- Epilachna varivestis—Plowing**
 Chapman, J. Ec. Ent. 23: 149-154, '30.
- Epilachna varivestis—Prothetely**
 iLandis & Davidson, Ohio J. Sci. 34: 147-149, 1934.
- Epilachna varivestis—Sense organs**
 biMcIndoo, Smithson. Misc. Coll. 82(18), 1931, 70p.
- Epilachna varivestis—Spraying**
 Alden, Ga. St. Bd. Ent. B. 76: 7-8, '32.
 Huckett, J. Ec. Ent. 24: 200-204, 1931.
- Epilachna varivestis—Temperature**
 Howard, USDA YB f. 1931: 375-376.
 bPyenson & Sweetman, Bklyn. Ent. Soc. B. 26: 221-226, 1931.
 bSweetman, Ann. Ent. Soc. Amer. 25: 224-240, 1932.
- Epilampra usambarensis**
 inRehn, P. Acad. Nat. Sci. Phila. 83: 375-377, 1931.
- Epilohmannia verrucosa**
 inJacot, Bernice P. Bishop Mus. B. 121: 6-9, 1934.
- Epinotia accessa**
 inHeinrich, PUSNM 79(13): 9-10, 1931.
- Epinotia cupressi**
 Burke, Nat. Shade Tree Conf. P. 9: 55, 1933.
- Epinotia lantana**
 iHeinrich, PUSNM 79(13): 10-11, 1931.
- Epinotia lindana**
 Clarke, Can. Ent. 66: 180-181, 1934.
- Epinotia myricana**
 nMcDunnough, Can. Ent. 65: 206-207, 1933.
- Epinotia nanana (Spruce needle miner)**
 iChambers & Thompson, Wis. Dept. Agr. B. 145: 67, 1933.
 iPeirson, Field Book of Destruct. For. Ins. ed. 2: 16, 1932.
- Epinotia opposita, patriciana**
 inHeinrich, PUSNM 79(13): 7-10, 1931.
- Epinotia subviridis (Cypress webber)**
 Burke, Cal. Agr. Mo. B. 21: 359-360, 1932.
 Burke, Nat. Shade Tree. Conf. P. 9: 55, 1933.
 Hyslop, J. Ec. Ent. 27: 560, 1934.
- Epiphaniis cornutus**
 Frost, Bklyn. Ent. Soc. B. 25: 53, 1930.
- Epiplema—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 71, 1930.
- Epipsilamorpha aequaeva**
 nBenjamin, Pan-Pac. Ent. 10: 87, 1934.
- Epiptera shoshone**
 nBall, Pan-Pac. Ent. 9: 133, 1933.
- Epipyrops cucullata**
 inHeinrich, PUSNM 79(13): 2-3, 1931.
- Episactus eremites, tristani**
 inRehn & Rehn, Amer. Ent. Soc. Mem. 8: 27-37, 1934.
- Epistenia regalis**
 nCockerell, Psyche 41: 228-229, 1934.
- Epistor gorgon**
 nClark, New Eng. Zool. Club. P. 13: 40, 1932.
- Epistrophe mediaconstrictus**
 inFluke, Ann. Ent. Soc. Amer. 23: 135-137, 1930.
- Episyron arizonica**
 nBanks, Psyche 40: 5, 1933.
- Episyron ashmeadi, bakeri**
 nBanks, Amer. Acad. Arts & Sci. P. 69(1): 87-90, 1934.
- Episyron laevis**
 nBanks, Psyche 40: 4, 1933.
- Episyron pilifrons, saussurei, smithi**
 nBanks, Amer. Acad. Arts and Sci. P. 69(1): 88-92, 1934.
- Epitadas, E. arius**
 inRehn, P. Acad. Nat. Sci. Phila. 81: 483-486, 1929.
- Epitactis—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 119, 1930.
- Epitactis californica**
 inKeifer, Pan-Pac. Ent. 7: 27-29, 1930.
- Epitragodes tomentosus (Downy darkling beetle)**
 'Watson & Berger, Fla. Ext. B. 67: 18, 1932.
- Epitragus diremptus**
 Williams, Hawaiian Ent. Soc. P. 7: 344, 1931.
- Epitrimerus piri**
 Twinn, Ent. Soc. Ont. R. 65: 122, 1934.
- Epitritus wheeleri**
 Williams, Hawaiian Ent. Soc. P. 8: 222-223, 1933.

- †Epidrix cucumeris Harr. (Potato flea beetle)***
 Anderson & Walker, J. Ec. Ent. 27: 102-106, 1934.
 Bailey, Vt., Dept. Agr. B. 32: 14-15, 1934.
 iBaribeau, Que. Min. de l'Agr. B. 110: 55, 1932.
 Barrus & Crosby, N.Y. (C.) Ext. B. 238: 26-27, 1932; B. 288: 24, 1934.
 Beattie, USDA FB 1338 rev.: 25, 1931.
 iBourne, Mass. Ext. Leaf. 20, rev.: 23, 1933.
 Britton, Conn. B. 344: 151, 1933; B. 349: 445, 1933.
 Britton, Conn. Veg. Grow. Assoc. P. 21: 41, 1934.
 iCaesar, Ont. Dept. Agr. B. 339, 59-60, 1931.
 iChardon, P.R. Mision Agr. Valle del Cauca: 193-195, 1930.
 Compton, Ill. C. 391: 14, 1932.
 Cooper, Ky. R. 42: 36, 1930.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 73, 1933; Ext. B. 278, 59, 1934.
 biDaniels, Col. B. 400, 1933, 34p.
 iDustan, Can. Dept. Agr. Ent. B. 32: 65-66, 1932.
 Gui, Ohio B. 446: 84-85, 1930; B. 470: 84-85, 1931.
 Gui, Ohio Bi-Mo. B. 156: 104-111, '32.
 Gui, Ohio Veg. Grow. Assoc. P. 17: 62-67, 1932.
 Gunderson, Neb. R. 44: 24, 1931.
 Haeghele & Wakeland, Ida. Univ. News Letter 16(6): 3, 1932.
 Hanson, W. Wash. B. 18-w: 11-12, '30.
 Hanson, Wash. B. 275: 33-34, 1932; B. 280, 1933. 27p.
 Hanson, W. Wash. Hort. Assoc. P. 25: 22-23, 1934.
 Haseman, Missouri Ext. C. 257: 3, '30.
 iHuckett, N.Y. (Gen.) C. 126, 1932. 5p.
 biJewett, Ky. Res. B. 297: 292, 301, 1930.
 Lacroix, Conn. B. 326: 419, 424-426, 1931; B. 335: 261, 265-266, 1932.
 Leonard, P.R. Ins. R. f. 1929-30: 118, 1931.
 List, Col. R. 45: 44, 1932.
 iMacLeod & Rawlins, N.Y. (C) B. 569: 9, 1933.
 iMetzger, Col. B. 412: 80-82, 1934.
 biMex. Agr. & Fomento. Principales Plagas: 169-170, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.: 47-48, 1933.
 Pierstorff & Parks, Ohio Pl. Dis. & Ins. notes, 2(5): 3-4, 1930.
 Simpson, Maine B. 377: 353-354, 1934.
 Slate, Conn. B. 347: 276, 1933; B. 357: 124, 1934.
 Stiles, Okla. Ext. News 13(6): 2, 1932.
 Turner, Conn. B. 349: 448-449, 1933; B. 360: 445-446, 1934.
 Twinn, Ent. Soc. Ont. R. 65: 116, 1934.
 Walker & Anderson, Peninsula Hort. Soc. Trans. 46: 20-22, 1932.
 iWard et al, Ind. Ext. B. 89(ed. 4 rev.): 19, 1933.
 Webster, Wash. B. 245: 30, 1930.
 Webster, J. Ec. Ent. 25: 976-980, 1932.
 iWebster, Wash. Ext. B. 186: 4, 1934.
 biWebster et al, Wash. B. 261, 1932. 20p.
 Wilkinson, Conn. (Storrs) Ext. B. 196: 28-29, 1933.
 Williams, Ohio B. 532: 39, 1934.
 Wolfenbarger, J. Ec. Ent. 27: 118-120, 1934.
Epidrix cucumeris—Barium fluosilicate
 iLacroix, Conn. B. 350: 489-491, 1932.
Epidrix cucumeris—Bordeaux
 iHerrick, N.Y. Dept. Agr. & Markets B. 240: 66-69, 1930.
 iPieper et al, Ill. B. 344: 274-275, 1930.
Epidrix cucumeris—Calcium arsenate
 Friend, N.H. Hort. Soc. R. Meet. Manchester, Dec. 8, 1932: 66-67.
 Gui, Ohio Wkly. P.B. 17(10): 1932.
Epidrix cucumeris—Dust
 Gui, Ohio Bi-Mo. B. 156: 108-111, '32.
Epidrix cucumeris—Flotation method for determining abundance
 biDaniels, J. Ec. Ent. 26: 1175-1177, '33.
Epidrix cucumeris—Pyrethrum
 Gui, Ohio B. 497: 78-81, 1932.
Epidrix cucumeris and Scab infection
 biSchaal, J. Agr. Res. 49: 251-258, 1934.
Epidrix fuscus Crotch (Eggplant flea beetle)*
 Compton, Ill. C. 391: 23, 1932.
 Cooper, Ky. R. 42: 36, 1930.
 Hanson, Wash. B. 275: 33-34, 1932.
 biJewett, Ky. Res. B. 297: 283-292, 1930.

- Epitrix parvula* (F.) (Tobacco flea beetle)***
 Beinhart, J. Ec. Ent. 25: 1187-1190, 1932.
 Britton, Conn. B. 349: 445, 1933.
 Bruner, Rev. de Agr. Cuba 14(15/16): 94, 1933.
 Burdette, N.J. St. Hort. Soc. P. f. 1930: 161-162, 1931.
 iLacroix, Conn. B. 367: 137-139, 1934.
 Marcovitch, Tenn. R. 44: 46, 1931.
 Marlatt, USDA Ent. R. f. 1931: 41.
 iSanderson, Ins. Pests Farm, ed. 3: 282-283, 1931.
 Stoutamire, Fla. Dept. Agr. B. 40 n.s.: 40, 1930.
 N.C. Ext. Farm News 17(6): 4, 1932.
- Epitrix parvula*—Barium fluosilicate**
 Chamberlin, J. Ec. Ent. 26: 233-236, 1933.
 iMarcovitch & Stanley, Tenn. C. 38, 1931. 2p.
- Epitrix* spp.**
 biMex. Agr. & Fomento. Principales Plagas: 152-153, 1930.
 Nolla, P.R. Rev. de Agr. 24: 93, 1930.
- Epitrix subcristata* Lec. (Western potato flea beetle)***
 Dustan, Can. Dept. Agr. Ent. B. 32: 66, 1932.
 biHanson, Wash. B. 280, 1933. 27p.
 Hanson, Wash. Hort. Assoc. P. 25: 22-23, 1934.
 biWebster et al, Wash. B. 261, 1932. 20p.
 Webster, Wash. B. 245: 30, 1930.
 Webster, J. Ec. Ent. 25: 976-980, 1932.
- Epiphorus velutinus***
 nFisher, Psyche 38: 100-101, 1931.
 inWheeler, Psyche 38: 88-89, 1931.
- Epochra canadensis* (Currant fruit-fly)***
 Darrow & Detwiler, USDA FB 1398, rev.: 16-17, 1930; FB 1398, rev.: 16-17, 1933.
 Doane, Common Pests: 189, 1931.
 Essig, Hist. of Ent.: 218-221, 1931.
 Jones & Hanson, Wash. Ext. B. 180: 7-8, 1933.
 Keifer, Cal. Agr. Mo. B. 19: 579, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.: 32, 1933.
 Quaintance, USDA FB 1398 rev.: 16-17, 1934.
- Twinn, Que. Soc. Prot. Pl. R. 23/24: 157, 1932.
- Epuraea luteola***
 Essig, J. Ec. Ent. 23: 287, 1930.
- Epyris californicus***
 Essig, Science, n.s. 75: 242-243, 1932.
 Essig & Michelbacher, Science n.s. 76: 407-408, 1932.
- Eracon* (?) *duidae***
 niBell, Amer. Mus. Nov. 555: 12, 1932.
- Eragrostis longiramea***
 nOman, J. Wash. Acad. Sci. 21: 437, '31.
- Erannis tiliaria* (Harr.) (Lime-tree looper)***
 iMcDaniel, Mich. Sp. B. 243: 33-34, 1933.
- Erax* spp.**
 bBromley, J. N.Y. Ent. Soc. 38: 173, 1930.
 nBromley, Ann. Ent. Soc. Amer. 27: 94-96, 1934.
 inCurran, Amer. Mus. Nov. 456: 10-11, 1931; 487: 23, '31.
 Osterberger, Assoc. South. Agr. Work. P. 31: 422, 1930.
 Osterberger, J. Ec. Ent. 23: 709-710, 1930.
- Erebia avinoffi***
 nHolland, Trans. Amer. Ent. Soc. 56: 151-152, 1930.
- Erebia mackinleyensis***
 nGunder, Can. Ent. 64: 278, 1932.
- Erebia* sp., *E. steckeri***
 nHolland, Trans. Amer. Ent. Soc. 56: 149-153, 1930.
- Erebus odora* (Black witch)**
 Bryan, Hawaiian Ent. Soc. P. 7: 355, 387, 1931.
 Cassidy, Hawaiian Ent. Soc. P. 7: 340, 1931.
 Ehrhorn, Hawaiian Ent. Soc. P. 7: 360, 373, 387, 1931.
 Fleury, Cal. Agr. Sp. Pub. 119: 30, '33.
 Mason, Hawaiian Ent. Soc. P. 7: 342, 344, 1931.
 Swezey, Hawaiian Ent. Soc. P. 7: 343, 353-354, 371, 1931; P. 8: 228-229, 387, 1933.
 Williams, Hawaiian Ent. Soc. P. 7: 352, 1931.
- Erechtia trinotata***
 Funkhouser, J. N.Y. Ent. Soc. 38: 412, 1930.

- Eremiacris**
 nHebard, P. Acad. Nat. Sci. Phila. 81: 366-368, 1929.
- Eremochrysa**
 biSmith, Ann. Ent. Soc. Amer. 25: 582-583, 1932.
- Eremochrysa punctinervis**
 bSmith, J. Kans. Ent. Soc. 7: 131, 1934.
- Eremopedes covilleae**
 inHebard, Trans. Amer. Ent. Soc. 60: 39-40, 1934.
- Eretmocerus, E. corni**
 iDozier, P. Ent. Soc. Wash. 34: 112-118, 1932.
- Eretmocerus haldemani**
 iWatson & Berger, Fla. Ext. B. 67: 57-58, 1932.
- Eretmocerus illinoisensis** 115, **pallidus** 116-117, **paulistus** 117-118, **portoricensis** 115-116.
 nDozier, P. Ent. Soc. Wash. 34: 1932.
- Eretmocerus serius**
 Arango, Rev. de Agr. Cuba 14(6): 71, '32.
 Berry, Rev. de Agr. Cuba 12(1): 25-26, 1930.
 biClausen & Berry, USDA TB 320: 21-31, 1932.
 Dozier, J. Ec. Ent. 25: 414, 1932.
 Jones, Rev. de Agr. Cuba 12(1): 28, '30.
 Marlatt, USDA Ent. R. f. 1930: 44.
 iSlawter, Pop. Sci. Month. 121: 47, '32.
 USDA YB f. 1932: 71.
- Ereunetis flavistriata**
 Holloway, Facts about Sugar 27: 356, 1932.
- Ereunetis spp.—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 147, 1930.
- Ergates spiculatus**
 biDuncan, Cal. St. Teach. Coll. Insects: 99, 100, 1933.
- Ericerus pe-la (White wax scale)**
 iBeardsley, Nature Mag. 20: 221, 1932.
- Eridontomerus isosomatus**
 iKnowlton & Janes, Utah B. 243: 11-12, 1933.
- Erinnyis alope**
 iBruner, Cuba Santiago de las Vegas C. 75: 9, 1931.
- Erinnyis spp.—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 56, 1930.
- Eriocampoides limacina (Pear slug)***
 iCaesar, Ont. B. 356: 50-51, 1930.
 Chambers & Thompson, Wis. Dept. Agr. B. 123: 12-13, 1931; B. 145: 25, 1933.
 Essig, Hist. of Ent.: 257-259, 1931.
 iEssig & Hoskins, Cal. Ext. C. 87: 37, 1934.
 Hutson, Mich. Sp. B. 244: 3, 1933.
 iMunro & Riddle, N.Dak. C. 42 rev.: 23-24, 1933.
 iNewcomer, USDA C. 270: 41-42, 47, 1933.
 Potter et al, N.H. Ext. B. 47: 45, 1934.
 iQuaintance & Siegler, USDA FB 1666: 74, 1931.
 Twinn, Ent. Soc. Ont. R. 65: 120, 1934.
- Eriocampoides matsumotonis**
 bClausen, USDA C. 168: 29, 1931.
- Eriocera spp.**
 nAlexander, Bklyn. Ent. Soc. B. 25: 73-75, 1930.
 nAlexander, Ann. Ent. Soc. Amer. 23: 734-736, 1930; 24: 630-631, 1931.
 nAlexander, Can. Ent. 63: 143-144, '31.
 inAlexander, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1012-1014, 1930.
- Eriococcus azaleae**
 McDaniel, Mich. Sp. B. 214: 69, 1931.
- Eriophyes aceris**
 inHodgkiss, N.Y. (Gen.) TB 163: 19-21, 1930.
 McDaniel, Mich. B. 243: 67-68, 1933.
- Eriophyes avellanae**
 Hyslop, J. Ec. Ent. 27: 565-566, 1934.
 Thompson, Oreg. St. Hort. Soc. R. 22: 116, 1930.
- Eriophyes cladophthirus**
 Watson, Fla. B. 232: 104, 1931.
- Eriophyes confusus, elongatus**
 iHodgkiss, N.Y. (Gen.) TB 163: 19, 25, 1930.
- Eriophyes essigi**
 iEssig & Hoskins, Cal. Ext. C. 87: 30-31, 1934.
 iHanson, W. Wash. B. 18-W: 9-11, '30
 biHanson, Wash. B. 279, 1933, 20p.; B. 305: 37, 1934.
 Jones & Hanson, Wash. Ext. B. 180: 6, 1933.
 Marlatt, USDA Ent. R. f. 1931, 37; R. f. 1933, 20.

- Mote & Wilcox, Wash. St. Hort. Assoc. P. 27: 203-207, 1931.
- bWilcox & Baker, W. Wash. Hort. Assoc. P. 25: 6-13, 1934.
- Eriophyes fici Essig (Fig mite)***
 Condit, Cal. Ext. C. 77: 53-54, 1933.
 iSimmons, Reed & McGregor, USDA C. 157: 61-63, 1931.
 bSmith & Hansen, Cal. B. 506: 36, 1931.
- Eriophyes fraxiniflorae**
 iMcDaniel, Mich. Sp. B. 243: 68, 1933.
- Eriophyes gossypii Banks (Cotton blister mite)***
 Leonard, Rev. Agr. P.R. 25: 136, 163, 1930.
 bRainwater, J. Ec. Ent. 27: 760, 1934.
 Wolcott, Ec. Ent. of West Indies 269-270, 1933.
- Eriophyes gracilis**
 Glatt, Oreg. St. Hort. Soc. R. 22: 36-38, 1930.
 Hanson, W. Wash. Hort. Assoc. P. 24: 18, 1933.
 McWhorter, Oreg. St. Hort. Soc. R. 22: 32-34, 1930.
 Marlatt, USDA Ent. R. f. 1931: 38.
- Eriophyes maculatus** 25-26, **major** 31-32, **modestus** 29-30, **negundi** 35-36.
 iHodgkiss, N.Y. (Gen.) TB 163: 1930.
- Eriophyes oleivorus**, *see* **Phyllocoptes oleivorus**
- Eriophyes ornatus, parallelus**
 iHodgkiss, N.Y. (Gen.) TB 163: 32-33, 40-41, 1930.
- Eriophyes pini**
 Burke, Nat. Shade Tree Conf. P. 9: 58, 1933.
- †**Eriophyes pyri Pgst. (Pear leaf blister mite)***
 iBorden, Cal. C. 324, 1932, 8p.
 iCaesar, Ont. B. 356: 52-53, 1930.
 Crane, Cal. Agr. Mo. B. 21: 214-217, 1932.
 Essig, Hist. of Ent.: 86-87, 1931.
 Heriot, B.C. Ent. Soc. P. 31: 41-42, 1934.
 biLockwood, Cal. Agr. Mo. B. 22: 321, 1933.
 iMcDaniel, Mich. B. 243: 66-67, 1933.
 Moulton, Cal. Agr. Mo. B. 20: 748, 1932.
- bNewcomer & Rolfs, J. Ec. Ent. 25: 985-988, 1932.
- iNewcomer, USDA C. 270: 19-21, 1933.
- Pettit & Hutson, Mich. C.B. 137: 38-39, 1931.
- Potter et al, N.H. Ext. B. 47: 45, 1934.
- iQuaintance & Siegler, USDA FB 1666: 73-74, 1931; FB 1270, rev.: 64-65, 1931.
- Regan, Wash. St. Hort. Assoc. P. 25: 132, 1929.
- iRoss, Can. Dept. Agr. B. 129: 50-51, '30.
- Sanderson, Ins. Pests Farm, ed. 3: 378-380, 1931.
- Twinn, Ent. Soc. Ont. R. 65: 122, 1934.
- Webster, Wash. St. Hort. Assoc. P. 27: 19, 1931.
- Eriophyes regulus**
 iHodgkiss, N.Y. (Gen.) TB 163: 24-25, 1930.
- Eriophyes sp.**
 Felt, J. Ec. Ent. 26: 49-50, 1933.
 iMcDaniel, Mich. Sp. B. 243: 68, 1933.
- Eriophyes tenuis**
 Ewing, P. Biol. Soc. Wash. 45: 100, '32.
- Eriophyes tristriatus erineus Nal. (Walnut blister mite)***
 Thompson, Oreg. St. Hort. Soc. R. 22: 118, 1930.
- Eriophyes ulmi**
 Hamilton, J. Ec. Ent. 24: 169, 1931.
- Eriophyidae**
 iHodgkiss, N.Y. (Gen.) TB 163, 1930, 45p.
- Erioptera (Ilisia) bispinigera**
 nAlexander, Bklyn. Ent. Soc. B. 25: 76-77, 1930.
- Erioptera (Empeda) boliviana**
 nAlexander, Ann. Ent. Soc. Amer. 23: 739-740, 1930.
- Erioptera (Mesocyphona) caloptera**
 Alexander, P.R. Dept. Agr. J. 16: 376-377, 1932.
- Erioptera (Mesocyphona) evergladea**
 nAlexander, J. N.Y. Ent. Soc. 41: 97-98, 1933.
- Erioptera (Mesocyphona) hubelli**
 niRogers, Univ. Okla. Biol. Surv. Pub. 3: 332-333, 1931.
- Erioptera (Ilisia) laevis**
 nAlexander, Bklyn. Ent. Soc. B. 25: 77, 1930.

- Erioptera (Erioptera) osceola**
 nAlexander, J. N.Y. Ent. Soc. 41: 95-96, 1933.
- Erioptera (Mesocyphona) portoricensis**
 niAlexander, P.R. Dept. Agr. J. 16: 377-378, 1932.
- Erioptera (Erioptera) seminole**
 nAlexander, J. N.Y. Ent. Soc. 41: 96-97, 1933.
- Erioptera (Erioptera) uliginosa**
 nAlexander, Bost. Soc. Nat. Hist. Occ. Pap. 5: 277-278, 1930.
- Erioptera (Mesocyphona) whitei**
 nAlexander, J. N.Y. Ent. Soc. 38: 119-120, 1930.
- Eriopyga contrahens**
 Learned, Bklyn. Ent. Soc. B. 27: 112, 1932.
- Eriopyga rufula**
 bCrumb, Bklyn. Ent. Soc. B. 27: 92, '32.
- Eriosoma americanum** Riley (Woolly elm aphid)*
 Gibson, Can. Hort. Fr. & Truck ed. 53: 50, 1930.
 biMiller, Ann. Ent. Soc. Amer. 26: 473-489, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 75, 1933.
- †**Eriosoma lanigerum** (Hausm.) (Woolly apple aphid)*
 Alden, Ga. St. Bd. Ent. B. 73: 11-14, 1930.
 Browne, Cal. Agr. Mo. B. 20: 389, 1931.
 iCaesar, Ont. B. 356: 29-30, 1930.
 Chambers & Thompson, Wis. Dept. Agr. B. 123: 9-10, 1931; B. 145: 16, 1933.
 Clausen, USDA C. 168: 26, 1931.
 Coe, Utah C. 83: 19, 1930.
 Cooley, Mont. B. 238: 12, 1930.
- biCutright, Ohio B. 464: 15-17, 1930.
 iDoane, Common Pests: 171-172, 1931.
 Drinkard, Va. Poly. Inst. R. f. 1927-1931: 35-36.
 Essig, Hist. of Ent.: 117, 1931.
 iEssig & Hoskins, Cal. Ext. C. 87: 17, 1934.
 Fluke, J. Ec. Ent. 23: 741-743, 1930.
 Greene, Cal. Agr. Mo. B. 21: 266-267, 1932.
 Heriot, B.C. Ent. Soc. P. 28: 12, 1931.
 bLeonard, Rev. Agr. P.R. 25: 93, 1930.
- Marcovitch, Tenn. R. 42: 34, 1929; R. 46: 33-34, 1933.
 bMarcovitch, J. Ec. Ent. 27: 779-784, 1934.
- biMarcovitch, Tenn. B. 151, 1934, 16p.
 iNewcomer, USDA C. 270: 23-25, 1933.
 iPettit & Hutson, Mich. CB 137: 35-36, 1931.
 iQuaintance & Siegler, USDA FB 1270, rev.: 88-89, 1931; FB 1666: 25, 71, 1931.
 Ruhmann, B.C. Dept. Agr. R. 24: 41 I, 1930.
 Sanderson, Ins. Pests Farm, ed. 3: 371-373, 1931.
 Strand, Mont. B. 269: 15, 1932.
 Wallace, Ind. Dept. Conserv. R. 11: 51, 1929.
 Yothers, J. Ec. Ent. 25: 135, 1932.
 Yothers, USDA TB 420: 43, 1934.
- Eriosoma lanigerum—Parasites**
 Childs & Gillespie, J. Ec. Ent. 25: 1013-1016, 1932.
 Yothers, Wash. St. Hort. Assoc. P. 30: 68-71, 1934.
- Eriosoma lanigerum and Canker**
 Dennys, B.C. Ent. Soc. P. 30: 8-10, 1933.
 iGussow, Can. Dept. Agr. Pam. 116, n.s. 1930, 7p.
 biYothers, Wash. St. Hort. Soc. P. 28: 69-75, 1932.
- Eriosoma mimica**
 inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 353-354, 1931.
- Eriosoma—Key**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 209, 1934.
- Eriosoma ulmi**
 iPatch, Nature Mag. 21: 115-119, 1933.
- Eriosomatinae—Key**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 208-209, 1934.
- Eriphia pernigrella**
 nForbes, P.R. Dept. Agr. J. 15: 360, '31.
 nForbes, N.Y. Acad. Sci. Surv. P.R. 12(1 sup.): 360, 1931.
- Eriphia quinquepunctata**
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 360-361, 1931.
 nForbes, P.R. Dept. Agr. J. 15: 360-361, 1931.

Eriphia spp.—Key

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R.
12(1 sup.): 358-359, 1931.

iForbes, P.R. Dept. Agr. J. 15: 358-359,
1931.

Eristalinae

Curran, Amer. Mus. Nov. 411: 1930,
27p.

Eristalis amazon

nCurran, Amer. Mus. Nov. 411: 23-24,
1930.

Eristalis arbustorum

Claassen, Ann. Ent. Soc. Amer. 26:
506, 1933.

Eristalis claudia 18-19, **doris** 20-21, **erraticus** 19-20, **mitis** 11-12, **mus**, 21-23, **tatei**, 9-10.

nCurran, Amer. Mus. Nov. 411: 1930.

Eristalis tenax

biDolley, J. Exp. Zool. 62: 319-326, 1932.

Dolley et al., Science n.s. 78: 313-314,
1933.

iDolley & Haines, Sci. Month. 31: 508-
516, 1930.

iLampman, Nature Mag. 22: 17-18, '33.

biMatheson, Med. Ent.: 398-400, 1932.

Eristalis tenuifrons 12-13, **urotaenia** 15-
16, **vierecki** 10.

nCurran, Amer. Mus. Nov. 411: 1930.

***Ermine moth**, see *Hyponomeuta malinellus* Zell.

Emobius schedli

nBrown, Can. Ent. 64: 9-10, 1932.

Eros humeralis

Knull, Ent. News 43: 42, 1932.

Erpetogomphus coluber, natrix

inWilliamson & Williamson, Mich. Univ.
Mus. Zool. Occ. Pap. 216: 14-26, '30.

Erycia

Curran, Amer. Mus. Nov. 526: 11-13,
1932.

Erycia flavitarsa

nReinhard, Bklyn. Ent. Soc. B. 29: 191-
192, 1934.

Erycia leechi

nCurran, Amer. Mus. Nov. 526: 12-13,
1932.

Erycia levata

nReinhard, Bklyn. Ent. Soc. B. 29: 193,
1934.

Erycia tuxedo

nCurran, BAMNH 61: 102, 1931.

Erycinidae—Mt. Roraima & Mt. Duida

Huntington, Amer. Mus. Nov. 611: 1-
4, 1933.

Erycioides, E. thoracica

nCurran, BAMNH 61: 103-104, 1931.

Erynnis funeralis

iComstock, So. Cal. Acad. Sci. B. 29:
24, 1930.

Erynnis persius

iComstock & Dammers, So. Cal. Acad.
Sci. B. 31: 94-95, 1932.

Erynnis sassacus

Saunders, N.Y. St. Mus. Hbk. 13: 251-
252, 1932.

Erynnis tristis

iComstock & Dammers, So. Cal. Acad.
Sci. B. 31: 42-45, 1932.

Eryphanis

Bates, Bklyn. Ent. Soc. B. 27: 161-162,
1932.

Erythemis—Key

Klots, N.Y. Acad. Sci. Sci. Surv. P.R.
14: 52-53, 1932.

Erythemis simplicicollis

bByers, Univ. Fla. Pub. Biol. Sci. Ser.
1(1): 264, 1930.

Erythraeus aonidiphagus

inEbeling, Pan-Pac. Ent. 10: 33-34, 1934.

Erythrodiplax minuscula

bByers, Univ. Fla. Pub. Biol. Sci. Ser.
1(1): 264, 1930.

Erythrodiplax spp.—Key

Klots, N.Y. Acad. Sci. Sci. Surv. P.R.
14: 42-43, 1932.

Erythroneura abjecta

inBeamer, Can. Ent. 63: 288, 1931.

Erythroneura accola

iBeamer, Can. Ent. 64: 135, 1932.

Erythroneura accurata

inBeamer, Ann. Ent. Soc. Amer. 23: 422,
1930.

Beamer, Can. Ent. 66: 18, 1934.

Erythroneura acicularis

nBeamer, J. Kans. Ent. Soc. 5: 126, '32.

Erythroneura aculeata 161, **adunca** 46-47,

inBeamer, Can. Ent. 64: 1932.

Erythroneura aenea

inBeamer, Ann. Ent. Soc. Amer. 23: 436-
437, 1930.

Erythroneura aesculi 46, **affinis** 142

inBeamer, Can. Ent. 64: 1932.

- Erythroneura albescens*
in Beamer, Ann. Ent. Soc. Amer. 23: 443, 1930.
- Erythroneura ales*
n Beamer, J. Kans. Ent. Soc. 5: 124-125, 1932.
- Erythroneura andersoni*
in Beamer, Can. Ent. 64: 86, 1932.
- Erythroneura angularis*
in Beamer, Ann. Ent. Soc. Amer. 23: 447, 1930.
- Erythroneura arta*
in Beamer, Can. Ent. 63: 287-288, 1931.
- Erythroneura atrimucronata*
in Beamer, Ann. Ent. Soc. Amer. 23: 424, 1930.
- Erythroneura attenuata*
in Johnson, Ohio J. Sci. 34: 260, 1934.
- Erythroneura aucta*
Beamer, J. Kans. Ent. Soc. 5: 123-124, 1932.
- Erythroneura balli*
n Beamer, J. Kans. Ent. Soc. 5: 125-126, 1932.
- Erythroneura ballista* 84, *basilaris* 141-142, *bella* 136-137
i Beamer, Can. Ent. 64: 1932.
- Erythroneura bicornis*
in Beamer, Ann. Ent. Soc. Amer. 23: 450, 1930.
- Erythroneura bifida*
in Beamer, Can. Ent. 63: 134-135, 1931.
- Erythroneura bifurca*
in Beamer, Ann. Ent. Soc. Amer. 23: 422, 1930.
- Erythroneura bigemina*
i Beamer, Can. Ent. 64: 143, 1932.
- Erythroneura hispinosa*
in Beamer, Can. Ent. 63: 241, 1931.
- Erythroneura bistrata* 262, *breakyei* 261-262
n Johnson, Ohio J. Sci. 34: 1934.
- Erythroneura brevipes*
in Beamer, Can. Ent. 31: 133-134, 1931.
- Erythroneura calamitosa*
in Beamer, Can. Ent. 63: 241-242, 1931.
- Erythroneura californica* 143-144, *cam-pora* 141
Beamer, Can. Ent. 64: 1932.
- Erythroneura ceonothana*
n Beamer, J. N.Y. Ent. Soc. 42: 287-288, 1934.
- Erythroneura certa* 159, *clara* 161-162
n Beamer, Can. Ent. 64: 1932.
- Erythroneura clavipes*
n Beamer, Can. Ent. 63: 269, 1931.
- Erythroneura coarctata*
in Beamer, Ann. Ent. Soc. Amer. 23: 436, 1930.
- Erythroneura comes* (Grape leafhopper)*
Cooper, Ky. R. 46, Pt. 1: 45, 1934.
Crosby, Rankin & Mills, N.Y. (C) Ext. B. 306: 26-27, 1934.
Dean, Kans. St. Hort. Soc. Bien. R. 40: 139, 1930.
Eddy, Ky. St. Hort. Soc. Trans. 79: 165-168, 1934.
i Essig, Hist. of Ent.: 101-103, 1931.
i Essig & Hoskins, Cal. Ext. C. 87: 56-58, 1934.
- biEyer*, Ann. Ent. Soc. Amer. 24: 238-259, 1931.
- Fite & Curry, N.Mex. B. 328: 24, 1931.
Hamilton & Gemmell, J. Ec. Ent. 27: 448-449, 1934.
Hutchison, Cal. R. f. 1930-31: 68, 1932.
- iLamiman*, Cal. Ext. C. 72, 1933, 20p.
- biLockwood*, Cal. Agr. Mo. B. 18: 766, 1929; B. 19: 582-584, 1930; B. 21: 375-393, 1932; B. 22: 279, 337, 1933.
McGregor, J. Ec. Ent. 25: 139-140, '32.
Maheux & Fetch, Ent. Soc. Ont. R. 60: 16, 1930.
- iMex. Agr. & Fomento. Principales Plagas*: 133-135, 1930.
Moulton, Cal. Agr. Mo. B. 20: 749, '32.
Quaintance & Siegler, USDA FB 1666: 85-86, 1931.
- iSanderson*, Ins. Pests Farm, ed. 3: 422-424, 1931.
Scott, Vedalia, 2(3): 8, 1933.
Shoene & Wingard, Va. Fr. 22(5): 14, '34.
Stearns et al, Del. B. 167: 26-27, 1930; B. 172: 33-34, 1931; B. 179: 33-34, 1932; B. 288: 29-30, 1934.
- Twinn, Ent. Soc. Ont. R. 64: 72, 1933; R. 65: 120, 1934.
- iWeed*, Insect Ways: 127-129, 1930.
- Erythroneura comes*—Parasites
Donohoe & Barnes, J. Ec. Ent. 27: 859, 1934.
- Erythroneura comes*—Spraying
Stearns, Peninsula Hort. Soc. Trans. 48: 41-42, 1934.

- Erythroneura comes*—Traps, light
biHermes & Ellsworth, J. Ec. Ent. 27:
1064-1067, 1934.
- Erythroneura concisa*
nBeamer, Can. Ent. 63: 286-287, 1931.
- Erythroneura confirmata* 134, *consueta* 71
nBeamer, Can. Ent. 64: 1932.
- Erythroneura contracta*
nBeamer, Can. Ent. 63: 130-131, 1931.
- Erythroneura cornipes* 449, *cotidiana* 433
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura crinita*
nBeamer, Can. Ent. 64: 85, 1932.
- Erythroneura cruciformis* 443-444, *cune-
ata*, 433-434
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura curta*
nBeamer, Can. Ent. 64: 86, 1932.
- Erythroneura curvata*
nBeamer, Can. Ent. 63: 132-133, 1931.
- Erythroneura davisii*
nBeamer, J. Kans. Ent. Soc. 7: 96, 1934.
- Erythroneura diffusa*
inBeamer, Ann. Ent. Soc. Amer. 23: 434,
1930.
- Erythroneura dira*
nBeamer, Can. Ent. 63: 286, 1931.
- Erythroneura dorsalis*, *see* *Erythroneura
lawsoniana*
- Erythroneura dowelli*
iAckerman & Isely, USDA TB 263:
11-14, 1931.
nBeamer, J. Kans. Ent. Soc. 5: 62-64,
1932.
- Erythroneura dumosa* 13-14, *era* 138-139
Beamer, Can. Ent. 64: 1932.
- Erythroneura externa*
nBeamer, Can. Ent. 63: 289, 1931.
- Erythroneura facota*
nBeamer, Can. Ent. 64: 70-71, 1932.
- Erythroneura falcata*
inBeamer, Ann. Ent. Soc. Amer. 23: 432,
1930.
- Erythroneura firma* 12-13, *forfex* 82
nBeamer, Can. Ent. 64: 1932.
- Erythroneura funesta*
inBeamer, Ann. Ent. Soc. Amer. 23: 441,
1930.
- Erythroneura gemina* 131-132, *gillettei*
128-129
nBeamer, Can. Ent. 63: 1931.
- Erythroneura gleditsia* 437, *hamata* 446
harpax 432-433
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura hartii*
Beamer, Can. Ent. 64: 140-141, 1932.
bSchoene, Va. Poly. Inst. B. 283: 19-21,
1932.
- Erythroneura huachucana*
nBeamer, J. N.Y. Ent. Soc. 42: 287, '34.
- Erythroneura hymac* 141, *illinoiensis* 140,
immota 16-17
nBeamer, Can. Ent. 64: 1932.
- Erythroneura impar*
nBeamer, Can. Ent. 63: 133, 1931.
- Erythroneura inclita*
nBeamer, Pan-Pac. Ent. 10: 44, 1934.
- Erythroneura incondita* 16, *inepta* 162
nBeamer, Can. Ent. 64: 1932.
- Erythroneura infinita*
inBeamer, Ann. Ent. Soc. Amer. 23: 446-
447, 1930.
- Erythroneura ingrata*
nBeamer, Can. Ent. 64: 160, 1932.
- Erythroneura interna*
nBeamer, Can. Ent. 63: 285-286, 1931.
- Erythroneura kansana* 138, *knighti* 87,
lata 86-87
nBeamer, Can. Ent. 64: 1932.
- Erythroneura latapex*
inBeamer, Ann. Ent. Soc. Amer. 23: 447-
448, 1930.
- Erythroneura lawsoni*
Beamer, Can. Ent. 64: 139-140, 1932.
- Erythroneura lawsoniana*
Beamer, J. Kans. Ent. Soc. 3: 49, 1930.
bSchoene, Va. Poly B. 283: 22-23, 1932.
- Erythroneura lenta* 82-83, *linea* 47-48
nBeamer, Can. Ent. 64: 1932.
- Erythroneura lunata*
Beamer, Can. Ent. 63: 130, 1931.
- Erythroneura macra*
nBeamer, Can. Ent. 64: 15, 1932.
- Erythroneura maculata*
Beamer, Can. Ent. 63: 127-135, 240-
244, 1931; 64: 45-48, 69-72, 82-88,
134-144, 158-162, 174-181, 1932.
- Erythroneura magnacalx* 451-452, *mallei-
formis* 449-450
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura manus* 83, *marra* 160-161
nBeamer, Can. Ent. 64: 1932.

- Erythroneura mensa*
nBeamer, Can. Ent. 63: 287, 1931.
- Erythroneura merita*
nBeamer, J. Kans. Ent. Soc. 5: 127, '32.
- Erythroneura minor* 84, *mira* 45, *mirifica* 159-160, *misera* 158-159
nBeamer, Can. Ent. 64: 1932.
- Erythroneura mixta*
nBeamer, Pan-Pac. Ent. 8: 183-184, '32.
- Erythroneura modica*
inBeamer, Ann. Ent. Soc. Amer. 23: 448, 1930.
- Erythroneura morgani* 139, *nevadensis* 72
nBeamer, Can. Ent. 64: 1932.
- Erythroneura nigriventer*
nBeamer, Can. Ent. 63: 134, 1931.
- Erythroneura nigroscuta*
inJohnson, Ohio J. Sci. 34: 258-260, '34.
- Erythroneura noncuspidis*
nBeamer, Can. Ent. 63: 129, 1931.
- Erythroneura obliqua*
Beamer, Ann. Ent. Soc. Amer. 23: 417, 1930.
Garman, Mass. Fr. Grow. Assoc. R. 38: 128, 1932.
Ross & Putman, Ent. Soc. Ont. R. 64: 38, 1933.
bSchoene, Va. Poly. Inst. B. 283: 22, '32.
- Erythroneura obvia*
inBeamer, Ann. Ent. Soc. Amer. 23: 439, 1930.
- Erythroneura omani*
Ackerman & Isely, USDA TB. 263: 14-15, 1931.
nBeamer, J. Kans. Ent. Soc. 3: 49-50, 1930.
- Erythroneura opulenta* 48, *osborni* 135.
Beamer, Can. Ent. 64: 1932.
- Erythroneura parallela*
Beamer, Can. Ent. 63: 243-244, 1931.
- Erythroneura parva*
nBeamer, Can. Ent. 64: 70, 1932.
- Erythroneura parvipes*
nBeamer, Can. Ent. 63: 242, 1931.
- Erythroneura parvispicata* 435-436, *pene-lutea* 427-428, *penenoeva* 438
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura penerostrata*
nBeamer, Can. Ent. 64: 85, 1932.
- Erythroneura penesica*
nBeamer, Can. Ent. 63: 269-270, 1931.
- Erythroneura penobliqua*
inBeamer, Ann. Ent. Soc. Amer. 23: 453, 1930.
- Erythroneura plena*
inBeamer, Ann. Ent. Soc. Amer. 23: 442, 1930.
Hodgkiss, Penn. St. Hort. Soc. P. 74: 38-39, 1933.
McConnell, J. Ec. Ent. 24: 560-561, 1931.
- Erythroneura propria*
nBeamer, Can. Ent. 64: 13, 1932.
- Erythroneura pulchra*, *see* *Erythroneura accurata*
- Erythroneura pyra*
Beamer, Can. Ent. 64: 88, 1932.
- Erythroneura quadrata* 435, *quadricornis* 431
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura restricta* 45-46, *retusa* 48
nBeamer, Can. Ent. 64: 1932.
- Erythroneura ritana*
nBeamer, J. N.Y. Ent. Soc. 42: 286-287, 1934.
- Erythroneura rostrata* 270, *rotunda* 288
nBeamer, Can. Ent. 63: 1931.
- Erythroneura rubens* 439-440, *rubra-taeniensis* 440
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura rubraza*
Beamer, Can. Ent. 64: 139, 1932.
- Erythroneura rubricata*
Beamer, Pan-Pac. Ent. 8: 183, 1932.
- Erythroneura rubronatata*
Beamer, Can. Ent. 64: 134, 1932.
- Erythroneura rufostigmata* 429-430, *sagittata* 440-441
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura sancta*
nBeamer, Can. Ent. 64: 15-16, 1932.
- Erythroneura scissa*
inBeamer, Ann. Ent. Soc. Amer. 23: 448-449, 1930.
- Erythroneura separata* 12, *septima* 87-88, *solita* 14
nBeamer, Can. Ent. 64: 1932.
- Erythroneura spatulata*
inBeamer, Ann. Ent. Soc. Amer. 23: 444, 1930.
- Erythroneura spp.*
Beamer, Ann. Ent. Soc. Amer. 23: 417-456, 1930.

- Beamer, Can. Ent. 63: 268-270, 285-289, 1931.
- Beamer, J. Kans. Ent. Soc. 5: 62-64, 123-127, 1932.
- Erythroneura spinifera* 240, *stephensoni* 130, *tantilla* 285
nBeamer, Can. Ent. 63: 1931.
- Erythroneura tenuispica*
inBeamer, Ann. Ent. Soc. Amer. 23: 444-445, 1930.
- Erythroneura teres*
nBeamer, Can. Ent. 63: 268-269, 1931.
- Erythroneura torella*
Beamer, Can. Ent. 64: 137, 1932.
- Erythroneura triangulata*
nBeamer, Can. Ent. 63: 240-241, 1931.
- Erythroneura tricolor* Fitch (Three-banded leafhopper)
Johnson, Ohio J. Sci. 34: 261, 1934.
iPettit, Mich. Sp. B. 239: 7-9, 1933.
- Erythroneura tridens*
inBeamer, Ann. Ent. Soc. Amer. 23: 450, 1930.
- Erythroneura trivittata*
Beamer, Can. Ent. 64: 137, 1932.
- Erythroneura turgida* 243, *uncinata* 242
nBeamer, Can. Ent. 63: 1931.
- Erythroneura unguiculata* 69-70, *unica* 83
nBeamer, Can. Ent. 64: 1932.
- Erythroneura unicuspidis*
inBeamer, Ann. Ent. Soc. Amer. 23: 452-453, 1930.
- Erythroneura univittata* 137, *usitata* 14-15
nBeamer, Can. Ent. 64: 1932.
- Erythroneura vaga*
inJohnson, Ohio J. Sci. 34: 260-261, '34.
- Erythroneura vinaria* 426, *volucris* 445
inBeamer, Ann. Ent. Soc. Amer. 23: '30.
- Erythroneura ziczac*
Cooley, Mont. B. 238: 13, 1930.
iGibson, Can. Dept. Agr. B. n.s. rev.: 44, 1934.
iKnowlton, Can. Ent. 66: 166-167, '34.
- Erythroneura zioni*
nBeamer, Can. Ent. 64: 71-72, 1932.
- Eschatocrepis*, *E. desertus*
inBlaisdell, Trans. Amer. Ent. Soc. 57: 327-331, 1931.
- Esphalmenus lativentris* 161-162, *porteri* 162, *silvestrii* 162
bRehn, Trans. Amer. Ent. Soc. 59: '33.
- Essigella californica* 838-839, *fusca* 839-840, *hoernerii* 840-841, *pini* 841
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 1931.
- Esthesopus indistinctus*
nFall, J. N.Y. Ent. Soc. 42: 23, 1934.
- Esthiopterum marquesanum*
inFerris, Bernice P. Bishop Mus. B. 98: 62-63, 1932.
- Estigmene acrea* (Drury) (Salt-marsh caterpillar)*
iFolsom, USDA FB 1688: 20, 1932.
iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 12, 1934.
Mitchener & Criddle, Ent. Soc. Ont. R. 60: 23, 1930.
Phipps, Maine B. 356: 179, 1930.
iStracener, J. Ec. Ent. 24: 835-838, '31.
Woglum, Cal. Cit. 13: 556, 1930.
- Estrellina*, *E. rehni*
nHebard, Trans. Amer. Ent. Soc. 59: 140-142, 1933.
- Ethmia colonella*
Hawaiian Ent. Soc. P. 8: 8, 1932.
- Ethmia cubensis* 164-165, *ornata* 168, *oterosella* 165-166
inBusck, Ent. Amer. n.s. 13: 1933.
- Ethmia* spp. Key
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 132-133, 1930.
- Ethylene oxide, *see* Fumigants—Ethylene oxide
- Etiella schisticolor*
biFlanders, Cal. Agr. Mo. B. 19: 409-421, 1930.
Marlatt, USDA Ent. R. f. 1931: 33.
- Etiella zinckenella* (Treit.) (Lima bean pod borer)*
Dominguez, P.R. Dept. Agr. & Comm. Inf. Ann. Span. ed. f. 1932/3: 149.
Flanders, J. Ec. Ent. 25: 1241, 1932.
Leonard, P.R. Dept. Agr. J. 16: 122, 1932.
Leonard & Mills, J. Ec. Ent. 24: 469-470, 1931.
Webster, Wash. Ext. B. 186: 5-6, 1934.
iWolcott, P.R. Dept. Agr. J. 17: 241-255, 1933.
bWolcott, P.R. Univ. J. Agr. 18: 429-434, 1934.
Wolcott, P.R. R. f. 1934: 144.

- Euacidalia** spp.
 nCassino, Lepidopterist 5: 9-24, 1931.
- Euaphycus portoricensis**
 Dozier, P. Ent. Soc. Wash. 35: 96, '33.
- Euaesta aequalis**
 Tillyard, Pac. Sci. Cong. 5, P. 5: 3549, 1934.
- Euaesta jonesi**
 inCurran, Amer. Mus. Nov. 526: 9-10, 1932.
- Euaesta** spp.
 biBenjamin, USDA TB 401: 49-51, '34.
- Euaestoides**
 inBenjamin, USDA TB 401: 57-58, '34.
- Eubaptus** spp.
 Bridwell, P. Ent. Soc. Wash. 34: 102, 1932.
- Eublemma amabilis**—Parasites
 ibMahdihassan, Ann. Ent. Soc. Amer. 27: 509-514, 1934.
- Eublemma cocciphaga**
 Essig, Hist. of Ent.: 322, 1931.
- Euborellia annulipes** (Lucas) (Ring-legged earwig)*
 Buckell, B.C. Ent. Soc. P. 7: 23-24, '30.
 biPayne, J. Morph. 53: 546-547, 1932.
 bRehn, Trans. Amer. Ent. Soc. 59: 163-164, 1933.
- Euborellia antoni**
 bRehn, Trans. Amer. Ent. Soc. 59: 164, 1933.
- Eubranchippus** spp.
 Creaser, Mich. Mus. Zool. Occ. Pap. 208, 1930. 13p.
- Eubrianax edwardsi**
 iBlackwelder, Pan-Pac. Ent. 6: 139-142, 1930.
- Eucaerus insularis**
 nDarlington, Psyche 41: 120-121, 1934.
- Eucaerus varicornis**
 Siepmann, Bklyn. Ent. Soc. B. 27: 214, 1932.
- Eucalyptus** insects
 bWymore, J. Ec. Ent. 27: 886, 1934.
- Eucapnopsis**
 biNeave, Can. Ent. 66: 5-6, 1934.
- Eucaterva variaria**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 31: 98-100, 1932.
- Eucelateria rubentris**
 bWilson, Fla. Ent. 17(1): 13, 1933.
- Eucraphis betulae, gillettei**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 904-905, 1931.
- Euceros** spp.
 nWalley, Can. Ent. 64: 242-247, 1932.
- Eucharomorpha wheeleri**
 inBrues, Bklyn. Ent. Soc. B. 29: 201-203, 1934.
- Euchloe ausonides**
 iDoudoroff, Pan-Pac. Ent. 6: 143, 1930.
- Euchloe creusa**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 31: 35-37, 1932.
- Euchloini**
 biKlots, Bklyn. Ent. Soc. B. 25: 80-94, 1930.
- Eucleodora cocae**
 inBusck, P. Ent. Soc. Wash. 33: 60-63, 1931.
- Eucnocrus anthrenoides**
 Illingworth, Hawaiian Ent. Soc. P. 7: 353, 1931.
 Swezey, Hawaiian Ent. Soc. P. 7: 341, 1931.
- Eucordylea mackiei**
 inKeifer, Pan-Pac. Ent. 8: 61-64, 1931.
- Eucorethra underwoodi**
 Johnson, B. Bost. Soc. Nat. Hist. 55: 19, 1930.
- Eucorydia, E. gemma**
 nHebard, P. Acad. Nat. Sci. Phila. 81: 96-99, 1929.
- Eucosma argentialbana**
 List, J. Ec. Ent. 25: 412, 1932.
- Eucosma gloriola**
 Felt, J. Ec. Ent. 26: 49, 1933.
 nHeinrich, P. Ent. Soc. Wash. 33: 196-197, 1931.
 Hyslop, J. Ec. Ent. 27: 560, 1934.
- Eucosma lineana**
 inHeinrich, PUSNM 79(13): 14-15, 1931.
- Eucosma ocellana**, *see* *Spilonota ocellana*
- Eucosma (Grapholitha) schistaceana**
 bClausen, USDA C. 168: 54, 1931.
- Eucrangonyx gracilis**
 Giovannoli, Bailey, Cave Life of Ky. 239: 1933.
 iShoemaker, Amer. Mus. Nov. 598: 15-17, 1933.
- Eucymatoge orichloris**
 Swezey, Hawaiian Ent. Soc. P. 7: 356, 1931.

- Eudamus proteus**
iWatson, Fla. B. 232: 28-29, 1931.
- Euderomphale aleurothrix**
nDozier, P. Ent. Soc. Wash. 34: 120-121, 1932.
- Euderomphale quercicola** 85-86, vittata, 86-87
nDozier, P. Ent. Soc. Wash. 35, 1933.
- Euderus acrobasis**
Gill, Nat. Pecan Grow. Assoc. P. 29: 72, 1930.
- Euderus cushmani**
Keifer & Jones, Cal. Agr. Mo. B. 22: 388, 1933.
- Euderus pallidiscapus**
nGahan, Habana Univ. Mem. Soc. Poey 8: 133-134, 1934.
- Eudistenia costipennis**
Linsley, Pan-Pac. Ent. 9: 92, 1933.
- Eudromiella arara**
inRehn, Trans. Amer. Ent. Soc. 58: 118-122, 1932.
- Euerythra phasma**
Meiners, Bklyn. Ent. Soc. B. 28: 187, 1933.
- Euethoea rugiceps (Lec.) (Sugarcane beetle)***
iArant, Ala. C. 65: 6, 1934.
Baerg, Ark. B. 280: 41, 1932.
Baerg, Ark. B. 312: 35-36, 1934.
Baerg & Palm, J. Ec. Ent. 25: 207-212, 1932.
Brannen, Ark. B. 297: 47, 1934.
Douglass, Rice J. 35: 11, 1932.
Hinds, Sugar B. 9(15): 7-8, 1931.
Holloway, Facts about Sugar 26: 446, 1931.
Ingram, Sugar B. 10(11): 4-5, 1932; 12(12): 5, 1934.
Ingram & Bynum, Facts about Sugar 27: 179, 1932.
Ingram & Bynum, J. Ec. Ent. 25: 844-849, 1932.
Ingram & Bynum, Sugar B. 10(22): 7, 1932.
Ingram, Bynum & Douglas, Sugar B. 11(24): 4, 1933.
Lyle, J. Ec. Ent. 26: 973, 1933.
Osterberger, Assoc. So. Agr. Work P. 31: 422, 1930.
biOsterberger, J. Ec. Ent. 23: 709-710, 1930; 24: 870-872, 1931.
- Osterberger, La. R. f. 1929-31: 86.
Strong, USDA Ent. R. f. 1934: 8.
- Euferonia iripennis, washingtonensis**
nNicolay & Weiss, J. N.Y. Ent. Soc. 42: 200-204, 1934.
- Eugnomus pyraustae**
Cartwright, USDA C. 289: 3, 1933.
- Eugymnopeza, E. braueri**
nTownsend, J. N.Y. Ent. Soc. 40: 453-454, 1932.
- Euhaemogamasus 3, E. onychomydis 4, oregonensis 4, utahensis 4-5**
inEwing, PUSNM 82(30), 1933.
- Euhybos spp.**
nCurran, Amer. Mus. Nov. 467: 2-6, '31.
- Euhybos triplex**
Wilson, J. N.Y. Ent. Soc. 40: 88, 1932.
- Euhybos vitripennis**
nCurran, Amer. Mus. Nov. 467: 3, 1931.
- Euidella grossa**
nVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21: 39-40, 1933.
- Eulabis bicarinata**
iBlaisdell, Trans. Amer. Ent. Soc. 58: 45-49, 1932.
- Eulabis spp.**
iBlaisdell, Trans. Amer. Ent. Soc. 58: 35-101, 1932.
- Eulachnus agilis**
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 836, 1931.
- Eulachnus americanus**
nTakahashi, P. Ent. Soc. Wash. 34: 151-152, 1932.
- Eulachnus rileyi**
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 836-837, 1931.
- Eulachnus taiwanus**
nTakahashi, P. Ent. Soc. Wash. 34: 152-153, 1932.
- Eulaelaps stabularis**
Ewing, P. Ent. Soc. Wash. 34: 14, '32.
- Eulecanium, see Lecanium**
- Eulia lysimachiae**
nSwezey, Hawaiian Ent. Soc. P. 8: 302, 1933.
- Eulia mariana, see Argyrotaenia mariana**
- Eulia quadrifasciana**
Hall, Ent. Soc. Ont. R. 64: 22, 1933.
- Eulia velutinana, see Argyrotaenia velutinana**

- Eulimneria alkae**
bClark, USDA TB 455: 20, 1934.
- Eulimneria crassifemur**
iThompson & Parker, J. Agr. Res. 40: 321-345, 1930.
- Eulimneria sp.**
iVandenberg, Guam R. f. 1930/1932: 22, 1933.
- Eulimnichus evanescens**
Keifer, Cal. Agr. Mo. B. 20: 249, 1931.
- Eulimnophora arcuata**
Keifer, Cal. Agr. Mo. B. 19: 578, 1930.
- Eulophus viridulus**
biParker & Smith, Ann. Ent. Soc. Amer. 26: 21-39, 1933.
biSachtleben, Internat. Corn Borer Invest. Sci. R. 3: 52, 108-111, 1930.
- Eumastacinae**
iRehn & Rehn, Amer. Ent. Soc. Mem. 8: 1934, 84p.
- Eumastax hondurensis** 76-79, **kressi** 59-64, **silvicola** 72-76
inRehn & Rehn, Amer. Ent. Soc. Mem. 8: 1934.
- Eumastax veraguae**
inHebard, Trans. Amer. Ent. Soc. 59: 127-128, 1933.
- Eumecosoma gibbum** 10, **shropshirei** 8-9, **tarsalis** 11
nCurran, Amer. Mus. Nov. 425: 1930.
- Eumenes abdominalis, confusus**
Bequaert & Salt, Ann. Ent. Soc. Amer. 24: 768-772, 1931.
- Eumenes picteti**
Bequaert, J. N.Y. Ent. Soc. 39: 134-135, 1931.
- Eumeninae**
iJaeger, St. Nich. 60: 552-553, 1933.
iWeed, Insect Ways: 162-166, 1930.
- Eumerus narcissi**
Latta, P. Ent. Soc. Wash. 36: 80, 1934.
iLatta & Cole, Cal. Agr. Mo. B. 22: 146-147, 1933.
- Eumerus spp.**
Blanton & Spruijt, J. Ec. Ent. 26: 514-515, 1933.
Hyde, Flor. Exch. 79(23): 9, 26, 1932.
biLatta, J. Ec. Ent. 25: 1020-1026, 1932.
biLatta & Cole, Cal. Agr. Mo. B. 22: 142-152, 1933.
Pemberton, Hawaiian Ent. Soc. P. 8: 375, 1934.
- Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 23.
- Spruijt & Blanton, J. Ec. Ent. 26: 613-620, 1933.
- Strong, USDA PQCA Q. 62, June, '32.
- Strong, USDA BPQ R. f. 1933: 31.
- Swezey, Hawaiian Ent. Soc. P. 8: 361-362, 1934.
- Eumerus strigatus**
Britton, Conn. B. 344: 132, 1933.
Dearing & Griffiths, N.C. Agr. B. Jan. 1930: 44.
- bGriffiths, USDA C. 122: 64-65, 1930.
- Haseman & Jones, Missouri B. 342: 25, 1934.
- Jardine, USDA PQCA Q. 62, June '32.
- iLatta & Cole, Cal. Agr. Mo. B. 22: 144-145, 1933.
- iMcDaniel, Mich. Sp. B. 214: 90-93, 1931.
- Seamans, Ent. Soc. Ont. R. 61: 29, '31.
- Strong, Amer. Flor. 73(2221): 27, 1931.
- Cal. Agr. Mo. B. 21: 220, 1932.
- Eumerus tuberculatus (Lesser bulb fly)***
Blanton & Spruijt, J. Ec. Ent. 27: 713-715, 845-848, 1934.
- iLatta & Cole, Cal. Agr. Mo. B. 22: 145-146, 1933.
- iMartin, Bklyn. Ent. Soc. B. 29: 27-36, 1934.
- Eumetopiops**
nTownsend, J. N.Y. Ent. Soc. 40: 445, 1932.
- Eumichtis loda**
biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
- Eumicrosoma benefica**
Flint & Larrimer, USDA FB 1498 rev.: 6-7, 1934.
- Eumiltogramma, E. angustifrons**
nTownsend, J. N.Y. Ent. Soc. 40: 443-444, 1932.
- Eumycteris saccharidis**
Holloway, Facts about Sugar 26: 304, 1931.
- *Euonymus scale, see Chionaspis euonymi**
- Euophthalma**
nCreighton, P. Amer. Acad. Arts & Sci. 66: 105-107, 1930.
- Eupagoderes spp.**
nVan Dyke, Pan-Pac. Ent. 10: 177-181, 1934.

Euparixia formica

nHinton, Pan-Pac. Ent. 10: 27-29, 1934.

Eupathithrips spectator

nHood, P. Biol. Soc. Wash. 47: 73-76, 1934.

Eupelmella vesicularis

biGahan, USDA Misc. Pub. 174: 52-58, 1933.

bList, Col. B. 385: 64-65, 1932.

Eupelminus excavatus

Essig & Michelbacher, Cal. B. 567: 69, 1934.

Eupelminus saltator, see Eupelmella vesicularis**Eupelmus allynii**

biGahan, USDA Misc. Pub. 174: 41-46, 1933.

Knowlton & Janes, Utah B. 243: 10-11, 1933.

Rockwood & Reeher, USDA TB 361: 18, 1933.

Eupelmus atropurpureus

biGahan, USDA Misc. Pub. 174: 46-51, 1933.

Eupelmus cyaniceps

Bigger, J. Ec. Ent. 25: 591, 1932.

Eupelmus karschii

bGahan, USDA Misc. Pub. 174: 51-52, 1933.

Eupelmus sp.

Smith, Cal. B. 505: 13, 1931.

Eupemphix trinitatis

Netting, Carnegie Mus. Ann. 19: 249-254, 1930.

Euphalepsus liljebladi

binPark, Ann. Ent. Soc. Amer. 26: 563-567, 1933.

Euphoria biguttata

Smyth, J. Kans. Ent. Soc. 7: 114-115, 1934.

Euphoria fascifera

Smyth, J. Kans. Ent. Soc. 7: 114, '34.

Euphoria fulgida

Smyth, J. Kans. Ent. Soc. 7: 114, 1934.

Euphoria inda (L.) (Bumble flower beetle)*

iSim, USDA C. 334: 10, 1934.

Euphoria submaculosa

Smyth, J. Kans. Ent. Soc. 7: 115, 1934.

Euphyrtus parvicollis, snowi

nSchaeffer, J. N.Y. Ent. Soc. 41: 464-466, 1933.

Euphthracarini—Key

Jacot, Bost. Soc. Nat. Hist. P. 39: 242, 1930.

Euphthracarus—Key

Jacot, Bost. Soc. Nat. Hist. P. 39: 253, 1930.

Euphthracarus depressculum 252-253, flavum 249, punctulatum 250-252

binJacot, Bost. Soc. Nat. Hist. P. 39: 1930.

Euphydryas anicia

Gunder, Can. Ent. 64: 283, 1932.

Euphydryas anicia hopfingeri

nGunder, Can. Ent. 66: 128-129, 1934.

Euphydryas editha

Gunder, So. Cal. Acad. Sci. B. 30: 47, 1931.

nGunder, Can. Ent. 66: 129, 1934.

Euphydryas phaeton

Grey, Ent. News 43: 241-242, 1932.

O'Byrne, Acad. Sci. St. Louis Trans. 28: 227-230, 1934.

Saunders, N.Y. St. Mus. Hdbk. 13: 122-123, 1932.

Euphyes bimacula

Saunders, N.Y. St. Mus. Hdbk. 13: 240-241, 1932.

Euphyes spp.

bEaton, Ann. Ent. Soc. Amer. 25: 23, 1932.

Euphyes vestris metacomet (Dun skipper)

iSaunders, N.Y. St. Mus. Hdbk. 13: 237-240, 1932.

Euphyllura arbuti

Burke, Nat. Shade Tree Conf. P. 9: 52, 1933.

Klyver, Pan-Pac. Ent. 8: 16, 1931.

Euphyllura arctostaphyli

biKlyver, P. Ent. Soc. Wash. 32: 155-156, 1930.

Klyver, Pan-Pac. Ent. 8: 15-16, 1931.

Euphyllura bicolor

nMartin, J. Kans. Ent. Soc. 4: 70, 1931.

Euphyllura nevepennis

biKlyver, P. Ent. Soc. Wash. 32: 156-157, 1930.

Euphyllura pruinosa

nMartin, J. Kans. Ent. Soc. 4: 69-70, 1931.

Eupithecia bradorata

inMcDunnough, Can. Ent. 62: 110-111, 1930.

- Eupithecia divinula, inclarata**
McDunnough, Can. Ent. 64: 2, 1932.
- Euplectrus plathypena**
iBruner, Rev. de Agr. Cuba 14(22): 96, 1934.
Bryan, Hawaiian Ent. Soc. P. 8: 230, 1933.
bWilson, Fla. Ent. 17(1): 7-12, 1933.
- Euplexia lucipara** (Fern moth)
Essig & Hoskins, Cal. Ext. C. 87: 50, 1934.
- Eupodes (?)—Mushrooms**
Davis, P. Ent. Soc. Wash. 36: 269, '34.
- Euponera gilva**
iCreighton & Tulloch, Psyche 37: 71-79, 1930.
Haskins, J. N.Y. Ent. Soc. 39: 507-521, 1931.
- Euponera (Brachyponera) solitaria**
iSmith, Ann. Ent. Soc. Amer. 27: 559-561, 1934.
- Euponera spp.**
iSmith, Ann. Ent. Soc. Amer. 27: 557-564, 1934.
- Euponera takahashii**
nWheeler, N.Eng. Zool. Club. P. 11: 94, 1930.
- Euproctis chrysorrhoea, see Nygmia phaeorrhoea**
- Euproserpinus phaeton**
iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 141-143, 1934.
- Euprosopia spp.**
inMalloch, PUSNM 78(15): 2-10, 1931.
- Eupseudosarcophaga**
nTownsend, J. N.Y. Ent. Soc. 40: 442, 1932.
- Eupteromalus americanus** 82-86, fulvipes 75-82, micropterus 86-89
biGahan, USDA Misc. Pub. 174: 1933.
- Eupteromalus nidulans**
Brown, USDA C. 176: 11-12, 1931.
Collins, Mass. Comm. Conserv. St. For. R. f. 1932: 28.
Marlatt, USDA Ent. R. f. 1932: 25.
biProper, J. Agr. Res. 43: 37-56, 1931; 48: 368-369, 1934.
- Eupteromalus sp.**
Rockwood & Reeher, USDA TB 361: 18, 1933.
iSachtleben, Internat. Corn Borer Invest. Sci. R. 3: 107-108, 1930.
- Eupteryginae**
iDeLong, Ohio J. Sci. 30: 398-402, 1930.
McAtee, P.R. Dept. Agr. J. 16: 119-120, 1932.
- Eupteryx huachucae**
inLawson, Pan-Pac. Ent. 6: 135-136, '30.
- Euptoietia claudia**
Calkins, Ent. News 43: 226, 1932.
Gibson, Can. Dept. Agr. B. n.s. 99, rev.: 17, 1934.
Marcovitch, Tenn. R. 44: 47, 1931.
Saunders, N.Y. St. Mus. Hdbk. 13: 152-163, 1932.
- Eurema**
Haskin, Ent. News 44: 120-121, 1933.
- Eurema chamberlaini**
nBates, Bost. Soc. Nat. Hist. Occ. Pap. 8: 135, 1934.
- Eurema dammersi**
inGunder, So. Cal. Acad. Sci. B. 29: 52, 1930.
- Eurema demoditas**
Haskin, Ent. News 44: 120-121, 1933-1934.
- Eurema dina**
nBates, Bost. Soc. Nat. Hist. Occ. Pap. 8: 133-134, 1934.
- Eurema euterpe**
Saunders, N.Y. St. Mus. Hdbk. 13: 204-209, 1932.
- Eurema gundlachia**
Coxey, Ent. News 43: 33, 1932.
- Eurema jucunda**
Haskin, Ent. News 44: 255-257, 1933.
- Eurema mexicana**
O'Byrne, Bklyn. Ent. Soc. B. 27: 186, 1932.
- Eureum cimicoides**
iEwing, PUSNM 77(20): 10-12, 1931.
- Eurhynchomyia thoracica**
nCurran, Amer. Mus. Nov. 506: 21-22, 1931.
- European apple sucker, see Psylla mali**
- European castor-bean, see Ixodes ricinus**
- *European corn borer, see Pyrausta nubilalis (Hbn.)**
- European dusky veined walnut aphid, see Callipterus juglandis**
- *European earwig, see Forficula auricularia**
- European elm bark beetle, see Scolytus multistriatus**
- *European elm scale, see Gossyparia spuria**

- *European fruit lecanium, *see* *Lecanium corni* Bouché
- *European fruit scale, *see* *Aspidiotus ostreaeformis* Curt.
- *European grain moth, *see* *Tinea granella*
- European house cricket, *see* *Gryllus domesticus*
- European larch sawfly, *see* *Lygaeonematus erichsonii*
- European olive scale, *see* *Parlatoria calianthina*
- European pigeon bug, *see* *Cimex columbarius*
- *European pine shoot moth, *see* *Rhyacionia buoliana* (Schiff.)
- *European red mite, *see* *Paratetranychus pilosus* (C. & F.)
- *European spruce sawfly, *see* *Diprion polytomum* (Htg.)
- *European wheat stem sawfly, *see* *Cephus pygmaeus* (L.)
- European willow beetle, *see* *Plagioderia versicolora*
- European wolf spider, *see* *Lycosa narbonensis*
- Eurypiella decolor*
Sweet, J. Ent. & Zool. 22: 80, 1930.
- Eurosta* 26-29, *nicholsoni* 27-28
in Benjamin, USDA TB 401: 1934.
- Eurosta solidaginis*—Parasites
bHughes, Ent. News 45: 119-122, 1934.
- Eurostina*
nCurran, Amer. Mus. Nov. 556: 4-5, '32.
- Euroto* (?) *dubia*
in Bell, Bklyn. Ent. Soc. B. 27: 138-139, 1932.
- Euroto fuldai*
in Bell, J. N.Y. Ent. Soc. 38: 456-457, '30.
- Euroto potaro, saramacca*
in Williams & Bell, Trans. Amer. Ent. Soc. 57: 276-277, 1931.
- Euroto sylvia*
Williams & Bell, Trans. Amer. Ent. Soc. 60: 127, 1934.
- Eurybiades, E. cerastes*
in Rehn, P. Acad. Nat. Sci. Phila. 81: 497-500, 1929.
- Eurycaenis nitida*, *see* *Brachycercus nitidus*
- Eurycaenis pallida* Ide, *see* *Brachycercus idei* (Lestage)
- Eurycaensis prudens*, *see* *Brachycercus prudens*
- Eurycephalomys*
Aldrich, P. Ent. Soc. Wash. 33: 120-121, 1931.
- Euryceromyia robertsoni*
iGreene, P. Ent. Soc. Wash. 36: 34, '34.
- Eurycotis caraibea, dimidiata*
Caudell, Ent. News 42: 204, 1931.
- Eurycotis improcera, lixa*
in Rehn, Trans. Amer. Ent. Soc. 56: 45-51, 1930.
- Eurydinora lividicarpus*
[Christensen], Wis. B. 429: 101, 1934.
- Euryglossidia rectangulata*
iCockerell & Ireland, P. Nat. Acad. Sci. 19: 973-978, 1933.
- Eurymus eurytheme*, *see* *Colias eurytheme*
- Eurymus meadii*, *see* *Colias meadii*
- Eurymus nastes*, *see* *Colias nastes*
- Eurymus philodice*, *see* *Colias philodice*
- Eurymycter bicarinatus, latifascia, tricaratus*
in Pierce, PUSNM 77(17): 17-18, 1930.
- Eurynogaster* spp.
in Van Duzee, Hawaiian Ent. Soc. P. 8: 339-343, 1933.
- Eurypelma californica*
Hoerner, Col.-Wyo. Acad. Sci. J. 1(5): 84, 1933.
- Eurypelma hentzi*
iBaerg, Guide to Nature 23: 42, 1931.
bBaerg, Ann. Ent. Soc. Amer. 27: 530-531, 1934.
Baird, Ohio J. Sci. 32: 321-322, 1932
Gordon, Pop. Sci. Month. 125(5): 124, 1934.
- biHinton, J. Ent. Zool. 25: 61-67, 1933.
Newport, Univ. Okla. Biol. Surv. Pub. 4: 35-36, 1932.
Petrunkévitch, J. N.Y. Ent. Soc. 42: 289-296, 1934.
- iPratt, Nature Mag. 16: 306, 1930.
Thorpe, Outdoor Life 73(4): 12-13, 75-76, 1934.
- Eurypelma hentzi*—Mouse eating
Andrews, Ind. Acad. Sci. P. 39: 305, 1930.
Rau, Sci. Month. 33: 563-564, 1931.
- Euryptera cruenta*
nMartin, Pan-Pac. Ent. 7: 70-71, 1930.

- Euryscelis suturalis**
biHopping, Ann. Ent. Soc. Amer. 25: 560-561, 1932.
- Eurythrips amplius**
inHood, Psyche 41: 1-5, 1934.
- Eurythrips conjunctus**
nHood, P. Biol. Soc. Wash. 47: 63-66, 1934.
- Eurythrips hookae, umbrisetis**
nHood, J. N.Y. Ent. Soc. 41: 414-416, 1933.
- Eurytoma atripes**
nGahan, USDA Misc. Pub. 174: 36-38, 1933.
- Eurytoma gigantea**
bHughes, Ent. News 45: 119-122, 1934.
- Eurytoma obtusiventris**
nGahan, Ent. News 45: 116-118, 1934.
bHughes, Ent. News 45: 119-122, 1934.
- Eurytoma orchidearum (Orchid fly)***
Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 65, 1930.
Haseman & Jones, Missouri B. 342: 26, 1934.
McDaniel, Mich. Sp. B. 214: 99-100, 1931.
- Eurytoma phoebus**
biGahan, USDA Misc. Pub. 174: 33-36, 1933.
- Eurytoma tylodermatis**
biList, Col. B. 385: 54-59, 1932.
bParker & Lamerson, J. Kans. Ent. Soc. 7: 90-92, 1934.
- Eurytomidae**
Muesebeck, P. Ent. Soc. Wash. 34: 109-112, 1932.
- Euryurus erythropygus**
biMiley, Ohio J. Sci. 30: 229-255, 1930.
- Euscelinus sarawacus**
Muesebeck, PUSNM 79(16): 14-15, 1931.
- Euscelis exitianus, see Exitianus obscurinervis**
- Euscelis maculipennis**
inDeLong & Davidson, J. N.Y. Ent. Soc. 42: 221, 1934.
- Euscelis obscurinervis, see Exitianus obscurinervis**
- Euscelis stactogalus, see Opsius stactogalus**
- Euscelis striatula, see Ophiola striatula**
- Euscepes batatae (Wtrh.) (West Indian sweet potato weevil)***
Bryan, Hawaiian Ent. Soc. P. 8: 17, 1932.
Colón, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1931-32: 41.
Ramos, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1932/1933, 155-156.
Swezey, Hawaiian Ent. Soc. P. 7: 343, 1931.
- Euschides cressoni**
Blaisdell, Pan-Pac. Ent. 9: 152, 1933.
nBlaisdell, Trans. Amer. Ent. Soc. 59: 191-194, 1933.
- Euschistus, E. bifibulus**
iBarber & Bruner, P.R. Dept. Agr. J. 16: 254-256, 1932.
- Euschistus conspersus**
biBaker, Can. J. Res. 4: 191, 1931.
- Euschistus crassus**
Barber & Bruner, P.R. Dept. Agr. J. 16: 255-256, 1932.
- Euschistus crenator**
iBarber & Bruner, P.R. Dept. Agr. J. 16: 254, 1932.
- Euschistus euschistoides**
biAdair, USDA C. 234: 8-9, 1932.
biBaker, Can. J. Res. 4: 160-168, 190, 1931.
nLadd, N.Y. (Gen.) R. 52: 57, 1932.
iMundinger & Chapman, J. Ec. Ent. 25: 655-658, 1932.
- Euschistus ictericus**
biBaker, Can. J. Res. 4: 193-194, 1931.
- Euschistus impictiventris**
Crosby, N.Y. St. Hort. Soc. P. 77: 12-13, 1932.
- Euschistus tristigmus**
biBaker, Can. J. Res. 4: 169-175, 191-192, 1931.
- Euschistus variolarius**
biBaker, Can. J. Res. 4: 192-193, 1931.
Lacroix, Conn. B. 335: 261, 1932.
Ladd, N.Y. (Gen.) R. 52: 57, 1933.
Mundinger & Chapman, J. Ec. Ent. 25: 655-658, 1932.
bParish, Ann. Ent. Soc. Amer. 27: 50-54, 1934.
- Euschistus zopilotensis**
biAncona, Mex. Univ. Nac. Inst. Biol. Anal. 4: 103-108, 1933.

- Eusimulium avidum**
Strong, N.Eng. J. Med. 204: 916-920, 1931.
- Eusimulium boreale, clarum**
Hearle, B.C. Ent. Soc. P. 29: 9-11, '32.
- Eusimulium pilosus**
in Knowlton & Rowe, Ann. Ent. Soc. Amer. 27: 580-582, 1934.
- Eusimulium spp.**
Marlatt, USDA Ent. R. f. 1933: 41.
- Eusimulium spp. and Onchocerciasis**
iHoffman, Anal. Univ. Nac. Mex. Inst. de Biol. 1: 59-62, 1930.
Strong, N.Eng. J. Med. 204: 916-920, 1931.
- Eusimulium turgidum**
in Hoffman, Anal. Univ. Nac. Mex. Inst. de Biol. 1: 298-300, 1930.
- Eusimulium utahense**
in Knowlton & Rowe, Ann. Ent. Soc. Amer. 27: 582, 1934.
- Eusphyrus schwarzi**
nPierce, PUSNM 77(17): 28, 1930.
- Eustellia variegata**
in Funkhouser, J. N.Y. Ent. Soc. 38: 408-409, 1930.
- Eustictus knighti**
nJohnston, Bklyn. Ent. Soc. B. 25: 297-298, 1930.
- Eustigoptera**
nCresson, Trans. Amer. Ent. Soc. 56: 126-128, 1930.
- Eustromula keiferi**
nLinsley, Pan-Pac. Ent. 10: 108, 1934.
- Eutarsus nigripennis**
in Van Duzee, BAMNH 61: 172-173, '31.
- Eutelus**
bFlanders, Ann. Ent. Soc. Amer. 28: 438-444, 1934.
- Eutermes costaricensis**
Holloway, Facts about Sugar 27: 355, 1932.
- Eutermes morio**
Stiles, Okla. Ext. News 11(7): 3, 1930.
- Eutermes sp.**
iGuenther, tr. by Miall, Naturalist in Brazil: 327-331, 1931.
- Eutetheisa bella**
Webb, S.C. R. 47: 59-60, 1934.
- Eutetranychus latus**
Ewing, P. Ent. Soc. Wash. 34: 14, 1932.
- Eutettix glennana, goniana**
nBall, Fla. Ent. 15: 1-2, 1931.
- Eutettix tenellus (Beet leafhopper)***
Annand, USDA YB f. 1931: 114-116.
Annand, P. Ent. Soc. Wash. 35: 12, '33.
Annand & Davis, USDA YB f. 1932: 110-113.
iAnnand et al, USDA C. 244, 1932, 24p.
iBall, J. Ec. Ent. 27: 945-959, 1934.
Cardon, Utah B. 250: 46, 1934.
Carter, J. Wash. Acad. Sci. 20: 153-154, 1930.
- biCarter, USDA TB 206, 1930, 115p.**
Cook, Cal. Agr. Mo. B. 22: 138-141, 1933.
- iCook, USDA YB f. 1934: 332-334.**
Dana, Oreg. St. Hort. Soc. R. 24: 81, 1932.
- bEssig, Hist. of Ent.: 103-110, 1931.**
Garcia, N.Mex. R. 40: 37-38, 1929; 43: 46, 1932.
- biHaegeler, Ida. B. 182, 1932, 51p.**
Iddings, Ida. B. 179: 30, 1931; B. 197: 38, 1933; B. 205: 41-42, 1934.
Knowlton, Utah Acad. Sci. P. 6: 8, 1929; P. 7: 57-58, 1930; 11: 237-239, 1934.
- biKnowlton, Utah TB 234, 1932, 64p.**
bKnowlton & Janes, J. Ec. Ent. 26: 1014, 1933.
- Knowlton, Stanford & Smith, J. Ec. Ent. 27: 1196-1197, 1934.
- Lockwood, Cal. Agr. Mo. B. 18: 767, '29.
Marlatt, USDA Ent. R. f. 1930: 28-29; R. f. 1931: 43-44; R. f. 1932: 15-16; R. f. 1933: 19-20.
Merrill, Cal. R. f. 1928-29: 71, 1930.
Moulton, Cal. Agr. Mo. B. 20: 750, '32.
- iSanderson, Ins. Pests Farm, ed. 3: 239-240, 1931.**
iSchwing, Facts about Sugar, 27: 397-398, 1932.
- biSeverin, Cal. Univ. Pub. Ent. 5(4): 37-88, 1930.**
- biSeverin, Hilgardia 7: 281-360, 1933.**
Stewart & Pittman, Utah C. 93: 23-24, 1931.
- Strand, Mont. B. 294: 33, 1934.
Strong, USDA Ent. R. f. 1934: 11.
Wakeland, Ida. B. 170: 20, 1930.
Wakeland, Ida. News Letter 15(5): 1-2, 1931.

Eutettix tenellus *Cont'd*

Watson, Cit. Ind. 11(10): 34, 1930.

Eutettix tenellus—Artificial feeding

iFife, Science n.s. 75: 465-466, 1932.

biFulton & Chamberlin, Science n.s. 79: 346-348, 1934.

Eutettix tenellus—Lizards

bKnowlton & Janes, J. Ec. Ent. 26: 1011-1016, 1933.

Eutettix tenellus—Migrations

iBall, J. Ec. Ent. 27: 958-959, 1934.

Eutettix tenellus—Parasites

Knowlton & Bowen, Utah Acad. Sci. P 7: 75, 1930.

Severin, Hilgardia 7: 339-343, 1933.

Eutettix tenellus—Temperature

iBall, J. Ec. Ent. 27: 951-954, 1934.

Eutettix tenellus—Weed hosts of

biPiemeisel, USDA C. 229, 1932, 24p.

Eutettix tenellus and Curly-top

Carsoner, USDA TB 360: 3-4, 1933.

Dana, Oreg. St. Hort. Soc. R. 24: 81-84, 1932.

Dana, Phytopath., 22: 997-998, 1932.

Dana, Oreg. St. Hort. Soc. R. 26: 95-99, 1934.

biEssig & Hoskins, Cal. Ext. C. 87: 26-28, 1934.

Heald, Man. of Pl. Dis. ed. 2: 251-252, 1933.

biLackey, J. Agr. Res. 44: 755-765, 1932.

biSeverin, Hilgardia 6: 253-276, 1931.

Swezey, Phytopath. 20: 93-100, 1930.

Swezey & Severin, Phytopath. 20: 169-177, 1930.

Eutettix tenellus and Tomato yellows

iShapovalov & Lesley, Phytopath. 21: 83-87, 1931.

Euthrips gossypii, *see* *Frankliniella gossypiana***Euthrips pyri**, *see* *Taeniothrips inconsequens***Euthryhynchus floridanus**

iWatson & Berger, Fla. Ext. B. 67: 101, 1932.

Euthysanius, *E. cribricollis*

bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 454-457, 1932.

Euthysa ius piceus

bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 456-457, 1932.

inBell, Amer. Mus. Nov. 555: 7, 1932.

Eutocus (?) *illepidus*

inBell, J. N.Y. Ent. Soc. 39: 527-528, '31.

Eutocus paulo

inBell, Amer. Mus. Nov. 555: 7-8, 1932.

Eutocus schmithi

inBell, J. N.Y. Ent. Soc. 38: 150-151, '30.

Eutocus sp.

Bell, Amer. Mus. Nov. 555: 16, 1932.

Eutreta spp.

nCurran, Amer. Mus. Nov. 556: 15-19, 1932.

Eutrichomastix passali, *phylophagae*

inTravis & Becker, Iowa St. Col. J. Sci. 5: 226-227, 1931.

Eutrixodes jonesii

iWolcott, Ec. Ent. of W.I.: 117-118, '33.

Eutrixopsis javana

biClausen, Jaynes & Gardner, USDA TB 366: 10-11, 1933.

Eutrychocampa wilsoni

iHilton, J. Ent. & Zool. 24: 51, 1932.

Eutychide hyalinus

inBell, J. N.Y. Ent. Soc. 38: 152, 1930.

Eutychide insulanus

inBell, J. N.Y. Ent. Soc. 39: 525-526, '31.

Eutychide maculata

inBell, J. N.Y. Ent. Soc. 38: 151-152, '30.

Eutychide rogersi

Williams & Bell, Trans. Amer. Ent. 60: 127, 1934.

Euvanessa antiopa, *see* *Aglais antiopa***Euxanthellus phillippiae**

Compere, Cal. Cit. 15: 565, 1930.

Euxesta annonae

biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 303-304, '31.

Euxesta galapagensis

nCurran, Cal. Acad. Sci. P. ser. 4, 21: 156, 1934.

Euxesta hyalipennis

nMalloch, Bernice P. Bishop Mus. B. 98: 209-210, 1932.

Euxesta mitis

inCurran, Amer. Mus. Nov. 456: 17-18, 1931.

Euxesta pruinosa

nMalloch, Bernice P. Bishop Mus. B. 98: 210-211, 1932.

Euxesta putricola

Mackie & Gammon, Cal. Agr. Mo. B 20: 387, 1931.

- Euxiphopoeus**
nGoding, J. N.Y. Ent. Soc. 38: 91, 1930.
- Euxiphopoeus nodosus**
nGoding, Amer. Mus. Nov. 421: 26-27, 1930.
- Euxoa**—Synonymy
iMcDunnough, Can. Ent. 64: 229-236, 1932.
- Euxoa aberrans**
inMcDunnough, Can. Ent. 64: 231-233, 1932.
- Euxoa albipennis**
biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
- Euxoa giffardi**
inSwezey, Hawaiian Ent. Soc. P. 8: 198, 1932.
- Euxoa mcdunnoughi**
nCook, Can. Ent. 62: 147-149, 1930.
- Euxoa melura**
inMcDunnough, Can. Ent. 64: 231, 1932.
- Euxoa messoria (Harr.) (Dark-sided cutworm)***
bCrumb, Bklyn. Ent. Soc. B. 27: 82-83, 1932.
- Euxoa ochrogaster (Guen.) (Red-backed cutworm)***
bAtkinson, Sci. Agr. 12: 200, 1931.
Cooley, Mont. B. 238: 11, 1930.
King, Ent. Soc. Ont. R. 61: 24, 1931.
Manson, Can. Ent. 63: 171-172, 1931.
bSeamans, Pac. Sci. Cong. 5, P. 5: 3476, 1934.
bSeamans & Salt, Que. Soc. Prot. Pl. R. 25/26: 118-124, 1934.
bStrickland, Alberta Ext. B. 24: 31-33, 1933.
Twinn, Ent. Soc. Ont. R. 65: 114, 1934.
- Euxoa olivalis** 230-231, *petruska* 235-236, *plagigera* 229-230, *pleuritica* 234-235
iMcDunnough, Can. Ent. 64: 1932.
- Euxoa quadridentata**
biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
- Euxoa scandens (Riley) (White cutworm)***
bCrumb, Bklyn. Ent. Soc. B. 27: 81-82, 1932.
Hudson & Wood, Ent. Soc. Ont. R. 60: 67-70, 1930.
- Euxoa scotogrammoides**
inMcDunnough, Can. Ent. 64: 233-234, 1932.
- Euxoa segetum**
Sacharov, Ecology 11: 513-516, 1930.
- Euxoa simona**
nMcDunnough, Can. Ent. 64: 234-235, 1932.
- Euxoa spp.**
Newcomer, USDA C. 270: 29, 1933.
- Euxoa tessellata (Harr.) (Striped cutworm)***
bCrumb, Bklyn. Ent. Soc. B. 27: 83, '32.
- Euxoa tristicula**
biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
bSeamans, Pac. Sci. Cong. 5, P. 5: 3477, 1934.
Strickland, Alberta Ext. B. 24: 35, '33.
- Euxoa tritici**
Sacharov, Ecology 11: 508, 1930.
- Euzophora semifuneralis**
Hamilton, Nat. Shade Tree Conf. P. 9: 67, 1933; 10: 32, 1934.
iKeifer, Cal. Agr. Mo. B. 20: 618-619, 1931.
Marlatt, USDA Ent. R. f. 1933: 8.
- Everes comyntas**
iSaunders, N.Y. St. Mus. Hdbk. 13: 189-192, 1932.
- Everestiomylia, E. antennalis**
nTownsend, J. N.Y. Ent. Soc. 40: 466, 1932.
- Evergreens insects**
Gambrell, Nat. Nurserym. 38(14): 12, 1930.
bGambrell, Nat. Shade Tree Conf. P. 8: 89-93, 1932.
Hamilton, N.J. R. 51: 182-192, 1930.
L.S., Flor. Rev. 65(1686): 118, 120, '30.
Loftus, Minn. Hort. 60: 92, 1932.
McDaniel, Mich. C. B. 141: 1-54, 1932.
Winter, Minn. Hort. 59: 176, 1931.
Flor. Rev. 70(1802): 25, 1932.
Seed World 27(13): 70, 1930.
- Evetrya buoliana, see Rhyacionia buoliana**
- Evora hemidesma**
Gibson, Can. Dept. Agr. B. 99 n.s., rev.: 22, 1934.
- Exallonyx philonthiphagus**
inWilliams, Hawaiian Ent. Soc. P. 8: 205-209, 1932.
- Exechia bifurcata**
inFisher, Can. Ent. 66: 277, 1934.

Exechia casta

Johannsen, Bklyn. Ent. Soc. B. 29:
149, 1934.

Exechia ovata, shawi

inFisher, Can. Ent. 66: 276, 278, 1934.

Exenterus—Key

Walley, Can. Ent. 65: 259-260, 1933.

Exeristes roborator

biBaker & Jones, USDA TB 460, 1934,
26p.

Edwards, Guam R. f. 1930: 3, 23, 1931.

Hergula, Internat. Corn Borer Invest.

Sci. R. 3: 128, 1930.

biSachtleben, Internat. Corn Borer In-
vest. Sci. R. 3: 49-50, 1930.

iVanderberg, Guam R. f. 1928: 26-27,

1930; R. f. 1929: 16, 1931; R. f.

1930/1932: 20-22, 1933.

Wishart & Thomas, Ent. Soc. Ont. R.
63: 40-41, 1932.

Exitianus armus

nBall, Bklyn. Ent. Soc. B. 28: 227-228,
1933.

Exitianus obscurinervis

Lawson, J. Kans. Ent. Soc. 3: 38-40,
1930.

Osborn, J. Ec. Ent. 24: 656-657, 1931.

biOsborn, USDA C. 241: 26-28, 1932.

Exochomus cubensis

Otero, Rev. de Agr. Cuba 15(5): 50,
1934.

Exochomus marginipennis

Watson & Berger, Fla. Ext. B. 67: 17-
18, 1932.

Exochomus quadripustulatus

Essig, Hist. of Ent.: 289, 1931.

Exophthalmodes roseipes

Leonard, P.R. Dept. Agr. J. 16: 125,
1932.

Exoprosopa spp.

nCurran, Amer. Mus. Nov. 415: 8, 1930.

binPainter, Ann. Ent. Soc. Amer. 23: 796-
799, 1930.

inPainter, Amer. Mus. Nov. 642: 6, 1933.

nPainter, J. Kans. Ent. Soc. 7: 68-70,
1934.

Exorista mitis

biSachtleben, Internat. Corn Borer In-
vest. Sci. R. 3: 54-57, 1930.

Exorista pyste

Gill, Nat. Pecan. Grow. Assoc. P. 29:
71-72, 1930.

Exorista tritaeniata

Cartwright, USDA C. 289: 3, 1933.

Exoristoides

Aldrich, PUSNM 81(9): 23-27, 1932.

Exoristoides johnsoni 24, **slossonae** 25,
urichi 25-27

nAldrich, PUSNM 81(9): 1932.

Exoteleia burkei

inKeifer, Pan-Pac. Ent. 8: 65-67, 1931.

Exoteleia dodecella

Sheppard, Ent. Soc. Ont. R. 61: 79-81,
1931.

Twinn, Ent. Soc. Ont. R. 64: 74-75,
1933.

Twinn, Ent. Soc. Ont. R. 65: 123, 1934.

Exptochiomera arizonensis 359-361, in-
tercisa 357-359, **nana** 361-363

inBarber, J. N.Y. Ent. Soc. 40: 1932.

Exptochiomera spp.

Barber, J. N.Y. Ent. Soc. 40: 357-363,
1932.

***Eye gnats**, see **Hippelates** spp.

***Eye-spotted budmoth**, see **Spilonota ocel-
lana** (D. & S.)

***Eyed click beetle**, see **Alaus oculus** (L.)

Fabriciella spp.

inCarpenter, Carnegie Mus. Ann. 22:
327-328, 1934.

binRowe, Ann. Ent. Soc. Amer. 24: 643-
678, 1931.

Walley, Can. Ent. 65: 168, 1933.

***Fall armyworm**, see **Laphygma frugiperda**

Fall cankerworm, see **Alsophila pometaria**

***Fall webworm**, see **Hyphantria cunea**

False armyworm, see **Xylena nupera**

False blossom leafhopper, see **Ophiola
striatula**

***False chinch bug**, see **Nysius ericae**

***False stable fly**, see **Muscina stabulans**

False wireworm, see **Eleodes** spp.

False yellowheaded fireworm, see **Spar-
ganothis sulfureana**

Fannia canicularis L. (Little housefly)*

Essig, Hist. of Ent.: 318, 1931.

Fannia pretiosina

nCurran, BAMNH 61: 86, 1931.

Fannia scalaris (F.) (Latrine fly)*

biMatheson, Med. Ent.: 390-391, 1932.

Fanoblatta

nRehn, P. Acad. Nat. Sci. Phila. 84:
469-470, 1933.

Farnham Royal Parasite Laboratory

Science n.s. 72: 417-418, 1930.

Feather mite, see Liponyssus silviarum**Feltia annexa (Granulate cut-worm)***

Bruner, Rev. de Agr. Cuba 14(15): 16, 93; (18): 51, 1933.

iChardon, P.R. Mission Agr. Valle del Cauca: 193-194, 1930.

iSmith, J. Kans. Ent. Soc. 7: 46, 1934.
Wolcott, La Hacienda 27: 316, 1932.**Feltia ducens**

bCrumb, Bklyn. Ent. Soc. B. 27: 80-81, 1932.

biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.

Feltia sp.

Nolla, Rev. de Agr. P.R. 24: 93, 1930.

Feltia subgothica (Dingy cutworm)*

Balduf, P. Ent. Soc. Wash. 33: 81-88, 1931.

bCrumb, Bklyn. Ent. Soc. B. 27: 80-81, 1932.

Feltia subpallida

nMcDunnough, Can. Ent. 64: 107-108, 1932.

Feltia vancouverensis

biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.

Feltia venerabilis

biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.

Fennel insects

Swezey, Hawaiian Ent. Soc. P. 7: 390-391, 1931.

Fentonia marthesia

McDunnough, Can. Ent. 64: 39, 1932.

Fenusa dohrnii (European alder leaf miner)*

iMcDaniel, Mich. Sp. B. 243: 58-59, 1933.

Fenusa pumila (Birch leaf miner)

iBritton, Conn. B. 344: 86, 1933.

Friend, J. Ec. Ent. 24: 171-177, 1931.

Friend, Nat. Shade Tree Conf. P. 7: 133-134, 1931.

Friend, Conn. B. 348: 293-364, 1933.

Macdonald, N.Y. Conserv. Dept. R. 20: 188-189, 1930.

Sewall, Can. Lumberm. 52(21): 34, '32.

Fern insects

iEssig & Hoskins, Cal. Ext. C. 87: 50-51, 1934.

Watson, Fla. Grow. 38(11): 34, 1930;
40(11): 23, 1932.

biWerner, Mich. Acad. Sci. Arts & Letters, Pap. 13: 517-540, 1931.

Wilson, Fla. Ent. Soc. B. 14: 41-44, '30.

Fern scale, see Hemichionaspis aspidistrae*Ferreola clypealis** 104-105, **tagalica** 106, **violacea** 105

nBanks, Amer. Acad. Arts & Sci. P. 69(1): 1934.

Ficiomyia birdi

nFelt, Ent. News 45: 132-133, 1934.

Fidelia villosa

Cockerell, Amer. Nat. 67: 286-288, '33.

Fidia longipes

Isely, J. Ec. Ent. 23: 95-97, 1930.

Fidia viticida Walsh (Grape rootworm)*

Barre, S.C. R. 46: 71, 1933.

Brannen, Ark. B. 297: 93-94, 1934.

Britton, Conn. B. 344: 113, 1933.

Crosby, Rankin & Mills, N.Y. (C.)

Ext. B. 306: 23-25, 1934.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 137-138, 1930.

Doane, Common Pests: 202-203, 1931.

Eddy, Ky. B. 353: 235, 1934.

Isely, Ark. B. 257: 56, 1930.

iPettit, Mich. Sp. B. 239: 9-11, 1933.

Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 6.

iQuaintance & Siegler, USDA FB 1666: 85, 1931.

iSanderson, Ins. Pests Farm, ed. 3: 419-420, 1931.

Fidia viticida texana

nSchaeffer, J. N.Y. Ent. Soc. 41: 472, 1933.

Fidicina compostela

inDavis, J. N.Y. Ent. Soc. 42: 55-56, '34.

Fidicina pullata

bWymore, J. Ec. Ent. 27: 885, 1934.

Field cricket, see Gryllus assimilis F.*Field crop insects, see Crop insects—Field****Field plant bug, see Adelphocoris rapidus*****Fiery hunter, see Calosoma calidum****Fig insects**

iCondit, Cal. Ext. C. 77: 52-54, 59-60, 1933.

Currie, Pac. Rur. Press 126: 174, 1933.

Fig Insects Cont'd

- Donohoe et al., J. Ec. Ent. 27: 1073-1075, 1934.
 Felt, Ent. News 45: 131-133, 1934.
 Robertson-Miller, Fla. Ent. 18: 29-30, 1934.
 Simmons, P. Ent. Soc. Wash. 36: 49, 1934.
 Simmons & Reed, Cal. St. Fig. Grow. Inst. P. 13: 7-9, 1930.
 biSimmons, Reed & McGregor, USDA C. 157, 1931, 71p.
 biSmith & Hansen, Cal. B. 506, 1931, 84p.
 iStansel & Wyche, Tex. B. 466: 20-22, 1932.
 Williams, Hawaiian Ent. Soc. P. 8: 18, 1932.
 Pac. Rur. Press 123: 161, 1932.
- Fig insects—Fumigation**
 Barnes & Fisher, J. Ec. Ent. 27: 860, 1934.
 iStiner, Food Ind. 4: 240-242, 1932.
- Fig insects—Parasites**
 iSimmons, Reed & McGregor, USDA C. 157: 40-42, 1931.
- Fig insects—Philippines**
 Williams, Hawaiian Ent. Soc. P. 8: 193-195, 1932.
- Fig insects—Pollinators**
 Pemberton, Hawaiian Ent. Soc. P. 8: 379, 1934.
- Fig insects and Souring of fig**
 Howard, J. Ec. Ent. 26: 917-918, 1933.
- *Fig mite, see Eriophyes fici Essig**
- *Fig scale, see Lepidosaphes ficus (Sign.)**
- Filbert insects**
 McWhorter et al., Oreg. Ext. B. 470: 14-15, 1934.
 Thompson, Oreg. Hort. Soc. R. 22: 116-118, 1930.
- Filter plant insects**
 iRiley & Johannsen, Med. Ent.: 196, 1932.
 Walden, Conn. B. 315: 587-588, 1930.
- Fiorinia florinae**
 Ehrhorn, Hawaiian Ent. Soc. P. 7: 376, 1931.
 Felt, J. Ec. Ent. 26: 50, 1933.
 McDaniel, Mich. Sp. B. 214: 62, 1931.
- Fiorinia japonica**
 Felt, J. Ec. Ent. 26: 50-51, 1933.

- Fir bark louse, see Dreyfusia piceae**
- Fir chermes, see Dreyfusia piceae**
- *Fir engraver, see Scolytus ventralis Lec.**
- Fir flatheaded borer, see Melanophila fulvoguttata drummondi (Kby.)**
- Fir tussock moth, see Hemerocampa pseudotsugata**
- *Fire ant, see Solenopsis geminata(F.)**
- *Firebrat, see Thermobia domestica Pack.**
- Fireflies**
 Beard, Amer. Boys' Bk. Bugs: 247-250, 1932.
 iReichard, Nature Mag. 19(1): 26-28, 1932.
- Fireflies—Luminescence**
 biShell, J. Cellular & Comp. Physiol. 1: 37-51, 1932.
 Sci. News Letter 21: 264, 1932.
- Fireflies—Synchronous flashing**
 Merrill, Science n.s. 71: 132, 1930.
- Fireworms—Cranberries**
 Crowley, Wash. B. 305: 62, 1934.
 Gilliatt, N.S. Fr. Grow. Assoc. R. 71: 54, 1934.
- Fireworms—Oil sprays**
 Crowley, Wash. B. 275: 65-66, 1932.
- Fish moth, see Lepisma saccharina**
- Fisherman's dobson, see Corydalus sp.**
- Fishes—Insect food of**
 iDimick & Mote, Oreg. B. 323, 1934, 23p.
 Foster, Sci. Month. 37: 524-525, 1933.
 Haseman, Missouri Farm. 23: 402, '32.
 Hazzard, Utah Acad. Sci. P. 11: 271, 1934.
 Johnson, Minn. TB 90, 1933, 31p.
 Mann, N.Y. (C.) R. 43, Pt. 2: 44, 1931.
- biMarshall, Amer. Micros. Soc. Trans. 52(1): 34-41, 1933.**
- Pate, N.Y. St. Conserv. R. 21, Sup.: 138, 141, 1931.**
- Richmond, Can. Ent. 62: 184, 1930.**
- Scott, Col.-Wyo. Acad. Sci. J. 1(2): 25, 1930.**
- Scott, Rocky Mt. Conf. Ent. R. 9: 11-12, 1932.**
- Sibley & Rimsky-Korsakoff, N.Y. Conserv. Dept. R. 20, Sup.: 110, 1931.**
- Tate, N.Y. St. Conserv. R. 21, Sup.: 138-142, 1932.**
- Mich. Pub. Health 20: 155-156, 1932.**
- Sci. News Letter 19: 150-151, 1931.**

Fishes and mosquitoes

Hildebrand, Science n.s. 74: 655-656, 1931.

Fitchiella spp.

inLawson, Bklyn. Ent. Soc. B. 28: 194-198, 1933.

Flannel moth, see Lagoa crispata

*Flat grain beetle, see *Laemophloeus minutus* Oliv.

*Flatheaded apple-tree borer, see *Chryso-bothris femorata* (Oliv.)

Flat-headed borers

Davis, Hoosier Hort. 16: 165-166, 1934.
Stuckey, Ga. R. 46: 38, 1934.

Flea beetles

iDavis, Ind. Ext. B. 186: 7, 1932.
iDustan, Can. Dept. Agr. Ent. B. 32: 15-16, 1932.
iGibson, Can. Dept. Agr. B. n s. 99, rev.: 29-31, 1934.
iGilbert & Popenoe, USDA FB 1371, rev.: 5, 1930; 1371, rev.: 6, 1934.
Gui, Ohio Wkly. P. B. 17(12), 1932
Kennedy, Iowa St Hort. Soc. Trans. 65: 347, 1930.
iSmith, J. Kans. Ent. Soc. 7: 47, 1934.
Twinn, Ent. Soc. Ont. R. 64: 67, 1933;
R. 65: 116, 1934.
iWatson, Fla. B. 232: 33, 1931.
Webster, Wash. Ext. B. 186: 4, 1934

†Fleas

Bishopp, USDA Off Rec. 10: 347, 1931.
Buckley, USDA FB 1652: 61-62, 1931.
bCook, U.S. Nav. Med. B. 32: 244-245, 1934.
Cossetta, Extermin. Log 1(5): 15, 1933.
Dunn, Amer. J. Pharm. 104: 683-684, 1932.
Eskey, U.S. Pub. Health R. 45: 2099-2102, 1930.
Faust, Sci. Month. 33: 230-231, 1931.
iHall, USDA C. 338, rev.: 15-17, 1934.
iHarrison, Purdue Agr. 26: 34, 1931.
biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 37-40, 1931.
Hirscher, J. Amer. Vet. Med. Assoc. 79: 251, 1931.
iLillingston, Hygeia 12: 1091-1093, '34.
bMatheson, Med. Ent.: 424-428, 1932.
Metcalf. Ill. St. Acad. Sci. Trans. 23: 270, 1930.
Mumford, Ill. R. 46: 163, 1933.

Sanderson, Ins. Pests Farm, ed. 3: 540-541, 1931.

Thomas, Fla. Grow. 40(6): 24, 1932.

iThone, Sci. News Letter 18: 94, 1930.

Twinn, Ent. Soc. Ont. R. 64: 78, 1933

iWalden, Conn. C. 97: 37-42, 1934.

Watson, Fla. Grow. 40(5): 22-23, (70): 16, 1932.

Fleas—Foxes

Law & Kennedy, Black Fox Mag. 17(9): 9-10, 43, 1934.

Fleas—Length of life

Hart & Pelikan, U.S. Pub. Health R. 49: 699-711, 1934.

Fleas—Mice

Eskey, U.S. Pub. Health R. 45: 2178, 1930.

Fleas—Poultry

Gibson, Sci. Agr. 11: 216-218, 1930.
iLamon & Kinghorne, Pract. Poult. Prod. rev.: 332, 1930.

Fleas—Rearing

Hicks, Amer. J. Trop. Med. 26: 147-148, 1932.

Fleas and Disease

Cecil, Text-book of Med. ed. 3: 513, '34.
Law & Kennedy, North Amer. Vet. 15(12): 36-38, 1934.
Riley & Johannsen, Med. Ent.: 399-413, 1932.

Fleas and Plague

Doane, Common pests: 76-77, 1931.
Eskey, U.S. Pub. Health R. 47: 2197-2200, 1932.
Flint & Metcalf, Insects, Man's Chief Competitors: 89-95, 1932.
iTrotter, Pan-Pac. Res. Inst. J. 8(3): 5-9, 1933.

Fleas and Typhus fever

iDyer, Sci. News Letter 19: 115, 1931.
Dyer, U.S. Pub. Health R. 49: 224-225, 1934.
bDyer, Workman & Rumreich, U.S. Pub. Health R. 47: 2370-2372, 1932:
Dyer et al., U.S. Pub. Health R. 46: 334, 1931.
bDyer et al., J. Amer. Med. Assoc. 99: 795-801, 1932.
Science n.s. 74 (1912 sup.): 10, 1931;
75(1932 sup.): 10-12, (1956 sup.): 8-9; 76(1972 sup.): 8; (1978 sup.): 12, 1932.

Flies and Typhus fever *Cont'd*

iSci. News Letter 20: 120, 403, 1931; 22: 7, 245, 279, 372, 1932.

Fleas in buildings

Houser, Ohio Wkly. PB 16(29), 1931.

Smith, J. Kans. Ent. Soc. 5: 80-81, '32.

Fleece-worm fly, *see* *Phormia regina*

Flexamia decora 2-3, *doeringae* 3, *modica* 3-4, *serrata* 4-5

inBeamer & Tuthill, J. Kans. Ent. Soc. 7: 1934.

Flexocentrus brunneus

inFunkhouser, J. N.Y. Ent. Soc. 38: 410-411, 1930.

Flies

iAaron, Nature Mag. 18: 158-162, 1931.

iAldrich, Explorations & Field Work of

Smithson. Inst. in 1932: 33-36, 1933.

Ayer, Hoard's Dairyman 75: 697, 1930.

iBishopp, Successful Farm. 28(6): 14, 58, 1930.

Campbell, Sullivan & Jones, Soap 10(3): 81-83, 85, 87, 103, 105, 107, '34.

biDuncan, Cal. St. Teach. Coll. Insects: 27-28, 1933.

Dunn, Amer. J. Pharm. 104: 682-683, 1932.

iHodgkiss & Smith, Penn. Ext. C. 140, 1931, 12p.

McDaniel, Mich. C. B. 144, 1932, 26p.

biMelvin, J. Ec. Ent. 25: 1151-1164, '32.

Murie, Mich. Univ. Mus. Zool. Misc. Pub. 25: 18, 1934.

Rice, N.C. Health B. 46(8): 14-15, '31.

Roberts, J. N.Y. Ent. Soc. 42: 257-261, 1934.

Smith, Maritime Farm. 38(17): 9, 10, 1933.

iStiner, Food Ind. 6: 460-461, 1934.

iThone, Sci. News Letter 23: 111, 1933.

Washburn, Nat. Butter & Cheese J. 23: 12-13, 1932.

Flies—Breeding control

iLara, Amer. J. Pub. Health 21: 43-49, 1931.

b[Ravenel] Amer. J. Pub. Health 24: 1169-1171, 1934.

Sherman, S.C. Wkly. News Notes 18: 46, 1930.

Flies—Collection and preservation

iAldrich, Smithson. Inst. Pub. 3134: 83-86, 1932.

Flies—Cost of, to movies

Pop. Mech. 55: 721, 1931.

Flies—Electrocuting

Collins, Pub. Works 62(9): 50, 1931.

iPop. Mech. 56: 707, 1931.

Flies—Formalin

Watson, Fla. Grow. 38(7): 16, 1930.

Flies—Pyrethrum

Tischler, J. Ec. Ent. 24: 558, 1931.

Flies—Rearing

iBoone, Sci. Amer. 148: 317, 1933.

Richardson, Sci. News Letter 22: 255, 1932

Flies—Repellents

Call, Kans. Bien R. 5: 78-79, 1930.

iPearson, et al., J. Ec. Ent. 26: 269-274, 1933.

iRichardson, Iowa Dept. Agr. YB 32: 31-35, 1932.

Ruggles, Minn. Hort. 62: 13, 1934.

North Amer. Vet. 13(9): 4, 1932.

Flies—Repellents—Colored glass or light

F.W.P., Glass Ind. 11: 203-204, 1930.

Munro, Sci. News Letter 20: 168, 1931.

Flies—Screens—Electric

Pop. Sci. Month. 119(1): 67, 1931.

Flies—Sewage treatment plants

bHerms, Sewage Works J. 2: 115-119, 1930.

Flies—Sprays, *see* Sprays for flies**Flies—Traps, *see* Traps for insects—Flies****Flies—White arsenic**

Illingworth, Hawaiian Ent. Soc. P. 7: 462-464, 1931.

Flies and disease

Arreguin, Rev. Unidas 47(8): 13-15, 1931.

Baker, Poultry Sci. 12: 42-45, 1933.

Cecil, Text-book of Med. ed. 3: 141, 170, 508, 1934.

Delaplane & Stuart, Poultry Sci. 12: 390-391, 1933.

iDoane, Common Pests: 59-67, 1931.

Dyer, U.S. Pub. Health R. 49: 224-225, 1934.

biFrye & Meleney, Amer. J. Hyg. 16: 729-748, 1932.

Herms. Ann. Ent. Soc. Amer. 25: 623-628, 1932.

biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 6-7, 1931.

Howard, Insect Menace: 198-200, '31.

- Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.
 McBride, Wallaces' Farm. 55: 802, '30.
 bMartin, J. Amer. Vet. Med. Assoc. 76: 229-230, 1930.
 bMatheson, Med. Ent.: 354, 1932.
 b[Ravenel], Amer. J. Pub. Health 24: 1169-1171, 1934.
 Rice, Ind. St. Bd. Health Mo. B. 34: 52-53, 1931.
 Riley & Johannsen, Med. Ent.: 321-356, 1932.
 iSanborn et al., Okla. R. f. 1926-1930: 254-264.
 Skidmore, Cornell Vet. 22: 281-285, '32.
 Stiles, USDA C. 154: 9, 1931.
 Williams, J. Amer. Vet. Med. Assoc. 81: 16-17, 1932.
 iExtermin. Log 1(6): 14, 16, 1933.
 Mich. Pub. Health 22: 197-198, 1934.
Flies and Onion pollination
 biJones & Emsweller, Amer. Soc. Hort. Sci. P. 31: 160-164, 1934.
Flies—Light colored clothes
 Sci. News Letter 23: 137, 1933.
Flies on cattle
 iDavis, Ind. Ext. B. 105 rev.: 2-4, 1933.
 iGray, Kans. Live Stock San. Comm. Bien R. 14: 137-151, 1933.
 Hutchison, Cal. R. f. 1932-34: 87.
 iMiller, Purdue Agr. 26: 6, 1931.
 Oil, Paint & Drug Report. 117(20): 50, 1930.
 Soap 8(10): 85-86, 1932.
Flight of insects, see Insects—Flight
***Floodwater mosquito, see Aedes hirsuteron (Theob.)**
Florida camphor mite, see Paratetranychus yothersi
***Florida red scale, see Chrysomphalus aonidium (L.)**
***Florida wax scale, see Ceroplastes floridensis Comst.**
***Flour beetles, see Tribolium spp.**
Flour insects, see Stored products insects
Flower-bud maggot, see Contarinia gossypii
Flower garden insects
 Betten, N.Y. (C.) R. 45: 123, 1932.
 Blair, Maritime Farm. 37(22): 13, 1932.
 Britton, Conn. B. 315: 498-499, 1930; B. 327: 470-471, 1931.
 Bush-Brown, Ladies' Home J. 48(3): 139, 1931.
 Davis, Ind. Acad. Sci. P. 43: 200, 1933.
 Doane, Common Pests: 276-310, 1931.
 Dye, Wis. Hort. 24: 298, 1934.
 Gibson, Ont. Hort. Soc. R. 24: 62-68, 1930.
 iGibson, Can. Dept. Agr. B. n.s. rev. 1934, 69p.
 Murphy, Gard. Club. Amer. B., Ser. 4(9): 101, 1930.
 Quint, Amer. Home 4: 455, 1930.
 Ross & Caesar, Ent. Soc. Ont. R. 62: 13-14, 1932.
 Scott et al., Missouri St. Bd. Agr. Quar. B. 30(4): 10-67, 1932.
 Symons, Md. Ext. R. 17: 68-69, 1932.
 Wallace, Ind. YB f. 1930: 484-487; YB f. 1931: 830-832.
 Cornell Rur. School Leaf. 25(4): 26-30, 1932.
***Flower thrips, see Frankliniella tritici**
Fly Sprays, see Sprays for flies
Fly vs. Cricket
 Daniels, Guide to Nature 23: 10, 1930.
Follicle mite, see Demodex folliculorum
Folsomia fimitaria
 Giovannoli, Bailey, Cave Life of Ky.: 233, 1933.
Folsomia prima
 inMills, Amer. Mus. Nov. 464: 3-4, 1931.
Folsomides exiguus
 inFolsom, Hawaiian Ent. Soc. P. 8: 58-59, 1932.
Folsomides parvus, stachi
 Mills, Collembola of Iowa: 43-46, 1934.
Fontaria lamellidens
 nChamberlin, Ent. News 42: 78-79, '31.
Forcipomyia cilipes
 Thomas, J. Ec. Ent. 27: 206, 1934.
Forcipomyia simulata, spp.
 iWalley, Can. Ent. 64: 165-166, 1932.
Forda—Key
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 236, 1934.
Forda olivacea
 Bartholomew, Ann. Ent. Soc. Amer. 25: 726-727, 1932.
Fordini—Key
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 236, 1934.

Foreign grain beetle, *see* *Ahasverus advena*
Forelius foetidus

Wheeler, Pan-Pac. Ent. 10: 141-142, 1934.

Forest cockroach, *see* *Parcoblatta pennsylvanica*

Forest flora

bJacot, Can. Ent. 64: 265-267, 1932.

Forest insects

iArrivee, Amer. For. 36: 71-73, 1930.

Balch, For. Chron. 7: 63-69, 1931.

bBalch, Ent. Soc. Ont. R. 65: 43-49, '34.

iBalch, Pulp & Paper Mag. of Can. 35: 679-680, 1934.

Britton, Conn. B. 327: 466-469, 1931.

Burgess, Nat. Shade Tree Conf. P. 6: 67-73, 1930.

Caesar & Ross, Ent. Soc. Ont. R. 60: 21-22, 1930.

Chamberlin, Introd. to For. Ent. 1931, 138p.

Chambers, Wis. Dept. Agr. B. 115: 53-54, 1931; B. 141: 103-105, 1933.

bDavault, Nat. Can. 58: 49-58, 1931.

de Gryse, Pac. Sci. Cong. 5, P. 5: 3395, 1934.

iDoane, Common Pests: 253-275, 1931

iEades, Can. Dept. Int. For. Serv. B. 80: 93-103, 1932.

Ernst, Yosemite Nature Notes 11(11): 3-4, 1932.

Evenden, Northw. Sci. 4: 51-54, 1930.

iFors & Reyes, Rev. de Agr. Cuba 12(12): 59-60, 1934.

Foster, N.H. For. Comm. Bien. R. f. 1930: 113-123.

iGraham, Mich. Acad. Sci. Pap. 11: 389-397, 1930.

Harrison, Can. Dept. Int. For. Serv. B. 85: 44-45, 1934.

Heisley, USDA Misc. Pub. 162: 22-23, 1933.

Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C., Doc. Material 2: 216-218, 1930.

Keen, Wash. Univ. For. Club Quar. 9(2): 9-12, 1932.

bKnull, J. Ec. Ent. 25: 1196-1203, 1932.

Koch, Northw. Sci. 7: 85-88, 1933.

MacDonald, N.Y. Conserv. Dept. R. 19: 139-140, 1930; R. 20: 153-171, 1931.

Maheux & Petch, Ent. Soc. Ont. R. 60: 15, 1930.

Marlatt, USDA Ent. R. f. 1930: 45-54; R. f. 1931: 56-62; R. f. 1932: 22-26; R. f. 1933: 28-32.

Middleton, in Toumey, Seeding & Plant. in the Prac. of For.: 406-414, 1931.

iMorganthau, N.Y. Conserv. Dept. R. 22: 111-125, 1933.

Nace, For. Leaves 22: 117-118, 1930.

Osborne, N.Y. Conserv. Dept. R. 23: 93-107, 1934.

Pearce, Timberman 31(4): 190, 1930.

iPierson, Field Book of Destruct. For. Ins. ed. 2, 1932, 24p.

Pierson & Nash, Maine For. Com. R. 18: 74-79, 1931.

Pierson, Cal. Countrym. 16(7): 11, 31, 1930.

Pierson, Ecol. Soc. Amer. B. 11: 447-450, 1930.

Strong, USDA Ent. R. f. 1934: 6-7.

bSwaine, For. Chron. 9(4): 5-32, 1933.

Swaine, Pac. Sci. Cong. 5, P. 5: 3387-3393, 1934.

Tessier, Que. Soc. Prot. Pl. R. 25/26: 62-63, 1934.

biTragardh, Pac. Sci. Cong. 5, P. 5: 3397-3404, 1934.

USDA For. Serv. Nat. Plan for Amer. For. 28: 723-732, 1415-1418, 1933.

Forest insects—California

iSalman, Cal. Agr. Mo. B. 22: 131-137, 1933.

Forest insects—Canada

Twinn, Ent. Soc. Ont. R. 64: 74-77, 1933; R. 65: 122-127, 1934.

Weir, Can. Min. Agr. R. f. 1930-1931: 126-128; R. f. 1931-1932: 168-170; R. f. 1932-1933: 48-49; R. f. 1933-1934: 56-58

Can. Dept. Agr. Ent. Br. News Letter 14(1/2): 3-4, 1933.

Forest insects—Canada—Aeroplane dusting

iSwaine, Pulp & Paper Mag. of Can. 29: 123-125, 1930.

Forest insects—Civilization, Influence of

bGraham, Ann. Ent. Soc. Amer. 26: 497-503, 1933.

Forest insects—Coleoptera—Ecology

bPark, Ann. Ent. Soc. Amer. 23: 57-80, 1930.

Forest insects—Defoliation loss

Summers & Burgess, J. Ec. Ent. 26: 51-54, 1933.

Forest insects—Drought

Houser, J. Ec. Ent. 24: 657-658, 1931.
Amer. For. 37: 112, 1931.

Forest insects—Dusting

iSwaine, Illus. Can. For. & Outdoors 26: 71-72, 1930.

Forest insects—Hawaii

Swezey, Hawaiian Ent. Soc. P. 7: 493-504, 1931.

Swezey, Hawaiian Pl. Rec. 36: 139-144, 1932.

Swezey & Williams, Hawaiian Ent. Soc. P. 8: 179-190, 1932.

Forest insects—Japan

iClausen, USDA C. 168: 81-91, 1931.

Forest insects—Maine

Violette, Maine For. Com. R. 18: 63-73, 1931.

Forest insects—Manitoba

Harrison, Can. Dept. Int. For. Serv. B. 85: 44-45, 1934.

Mitchener, Ent. Soc. Ont. R. 62: 25-26, 1932.

Forest insects—New Brunswick

Gorham, Ent. Soc. Ont. R. 60: 12, '30.
Gorham et al, Ent. Soc. Ont. R. 62: 19, 1932.

Forest insects—Nocturnal

Park & Kellar, Ecolog. Soc. Amer. B. 12(4): 2, 1932.

bPark & Kellar, Ecology 13: 335-346, 1932.

Forest insects—North America

bCraighead, USDA Misc. Pub. 74, 1930. 23p.

Forest insects—Nova Scotia

Balch, N.S. Dept. Lands & For. R. f. 1930: 38-45, 1931; R. f. 1931: 46-52, 1932; R. f. 1932: 46-49, 1933; R. f. 1933: 25-29, 1934.

Gilliatt, Ent. Soc. Ont. R. 62: 17, 1932.

Swaine, N.S. Dept. Lands & For. R. f. 1929: 42-46, 1930.

Forest insects—Ontario

Cacsar & Ross, Ent. Soc. Ont. R. 63: 19-20, 1932; R. 62: 11-13, 1932.

Forest insects—Pacific coast

Hopping, Pac. Sci. Cong. 5, P. 5: 3385-3386, 1934.

Forest insects—Parasites

Balch, Pulp & Paper Mag. of Can. 35: 680, 1934.

Buckell, Ent. Soc. Ont. R. 62: 33, 1932.

bDowden, Ann. Ent. Soc. Amer. 27: 599-603, 1934.

Schedl, Can. Ent. 64: 1-2, 1932.

Taylor, J. For. 28: 546-551, 1930.

Forest insects—Quantitative study

bDe Gryse, Sci. Agr. 14: 477-495, 1934.

Forest insects—Succession in tree trunks

Ingles, J. Ent. & Zool. 25: 57-59, 1933.

Forest insects and disease

Morganthau, N.Y. Conserv. Dept. R. 21: 21-22, 1932.

Forest tent caterpillar, *see* Malacosoma disstria Hbn.*Forficula auricularia L. (European earwig)***

biBeall, B.C. Ent. Soc. P. 29: 28-43, '32.

Beall, Bklyn. Ent. Soc. B. 27: 231-238, 1932.

Beall, Ent. News 44: 6-10, 1933.

Buckell, B.C. Ent. Soc. P. 27: 24-25, 1930.

Dimick, Cal. Agr. Mo. B. 23: 298-300, 1934.

iDustan, Can. Dept. Agr. Ent. B. 32: 26-27, 1932.

iEssig, Hist. of Ent. 88-92, 1931.

Fleury, Cal. Agr. Mo. B. 23: 234, 1934.

iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 39-40, 1934.

Lyne, Cal. Dept. Agr. Sp. Pub. 115: 152, 1932.

Mackie, Cal. Agr. Mo. B. 23: 300-303, 1934.

Marlatt, USDA Ent. R. f. 1930: 33; R. f. 1931: 39-40; R. f. 1932: 16.

Merrill, Cal. R. f. 1928-1929: 69, 1930.

Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 23, 25.

Steinweden, J. Ec. Ent. 27: 919-923, 1934.

Stene, J. Ec. Ent. 27: 566-569, 1934.

Twinn, Ent. Soc. Ont. R. 65: 118, 1934.

Weir, Can. Min. Agr. R. f. 1932: 192.

Forficula auricularia—Olfactometer

Beall, Ent. News 44: 6-10, 1933.

Forficula auricularia—Parasites

Dimick, J. Ec. Ent. 24: 962-964, 1931.

bDimick & Mote, J. Ec. Ent. 27: 863-865, 1934.

Lyne, Cal. Dept. Agr. Sp. Pub. 115: 55, 1932.

Mote, J. Ec. Ent. 24: 948-956, 1931.

bMote, Stearns & Dimick, J. Ec. Ent. 24: 957-961, 1931.

Weir, Can. Min. Agr. R. f. 1932: 177-178.

Forficula auricularia—Quarantine

Fleury, Cal. Agr. Mo. B. 21: 554-555, 1932; B. 23: 488, 1934.

Forficula auricularia—Regeneration

iPrentiss, Pan-Pac. Ent. 9: 129-130, '33.

Forficula senegalensis

Rehn, Trans. Amer. Ent. Soc. 59: 8-9, 1933.

Fork-tailed bush katydid, see Phaneroptera furcata Brunner*Formica cinerea var. neocinerea**

bQuayle, Cal. B. 542: 65, 1932.

Formica exsectoides

biAndrews, Physiol. Zool. 3: 469-477, '30.

Andrews, Sci. Month. 34: 97-98, 1932.

bCoover, For. Leaves 22: 119-120, 1930.

MacAloney & Hosley, J. For. 32: 1003-1006, 1934.

Formica fusca subsericea Say (Silky ant)*

Rau, Acad. Sci. St. Louis Trans. 28: 211-213, 1934.

Formica obscuripes

Cole, Ohio J. Sci. 32: 533-538, 1932.

biCole, Psyche 39: 30-33, 1932.

Formica pallide-fulva nitidiventris

Rau, Acad. Sci. St. Louis Trans. 28: 211-212, 1934.

Formica pratensis

nWheeler, Psyche 40: 65, 1933.

Formica sanguinea subintegra

Rau, Acad. Sci. St. Louis Trans. 28: 211, 1934.

Formica spp.

Newcomer, USDA C. 270: 44, 1933.

iTalbot, Ecology 15: 430-435, 1934.

Formica subpolita

Cole, Ohio J. Sci. 32: 247-248, 1932.

Formica subserica

Haskins, Nature Mag. 17: 18-20, 1931.

Schneirla, J. Comp. Psych. 17: 303-328, 1934.

Formica truncicola integra

Smith, Ent. News 41: 22, 1931.

Formica truncorum approximans

nWheeler, Psyche 40: 65-66, 1933.

Formica ulkei

biDreyer, Physiol. Zool. 5: 301-331, '32.

bDreyer & Park, Psyche 39: 127-133, 1932.

Formica ulkei and Temperature

biDreyer, Physiol. Zool. 5: 301-331, '32.

Formica yoshiokae

nWheeler, Psyche 40: 66-67, 1933.

Formicary—Construction

iHowes, Amer. Photography 26: 592-595, 1932.

Formicidae

Cole, Ohio St. Univ. Abstr. Doctors Diss. 11: 97-105, 1933.

Cole, Psyche 41: 221-227, 1934.

Formicidae—Templeton Crocker expedition

Wheeler, Cal. Acad. Sci. P. ser. 4, 21: 57-64, 1933; 21: 173-181, 1934.

Formicocoptera

nTownsend, J. N.Y. Ent. Soc. 40: 451-452, 1932.

Formicoidea (Ants)

iStep, Bees, Wasps, Ants: 159-173, '32.

Formosodoria

nTownsend, J. N.Y. Ent. Soc. 40: 475-476, 1932.

Fornax (Ceratus) haddeni

nFleutiaux, Hawaiian Ent. Soc. P. 8: 45-46, 1932.

Fornax insularis

nFleutiaux, Hawaiian Ent. Soc. P. 7: 456, 1931.

Fornax orchesides

Knull, Ent. News 43: 45, 1932.

Fornax striatus

nFleutiaux, Hawaiian Ent. Soc. P. 8: 45, 1932.

Fornax zwaluwenburgi

nFleutiaux, Hawaiian Ent. Soc. P. 7: 455-456, 1931.

Fornicia pilosa

nCushman, PUSNM 79(14): 12-13, '32.

Four-lined borer, see Luperina stipata***Four-lined plant bug, see Poecilocapsus lineatus (F.)*****Four-spotted tree cricket, see Oecanthus nigricornis quadripunctatus Beut.**

Fowl lice, see Poultry lice

***Fowl tick, see Argas miniatus Koch**

Fox insects

iHanson, Black Fox Mag 16(4): 10, 12
1932.

Frankliniella bispinosa

Watson, Fla. B. 232: 86-87, 99-100,
1931.

Watson, Fla. Grow. 40(4): 21, 1932.

Frankliniella californica

Bailey, J. Ec. Ent. 26: 836-840, 1933.
iEbeling, Cal. Agr. Mo. B. 22: 381-384,
1933.

Hutchison, Cal. R. f. 1930-31: 40, 1932.

iLockwood, Cal. Agr. Mo. B. 22: 336,
1933.

Moulton, J. Ec. Ent. 24: 1033, 1035,
1931.

Frankliniella cephalica

Brooks, Watson & Mowry, Fla. Coop.
Ext. B. 63: 43-44, 1932.

Watson, Fla. R. f. 1934: 51.

Frankliniella fusca (Tobacco thrips)*

Antisdale, Glad. Rev. 9: 240, 1932.

Barre, S.C. R. 43: 61-62, 1930.

biEddy & Livingstone, S.C. B. 271, 1931,
22p.

iGaines, J. Ec. Ent. 27: 740-743, 1934.

iLacroix, Conn. B. 359: 378-380, 1934;
B. 367: 139, 1934.

Watts, J. Ec. Ent. 27: 1158-1159, 1934.

Frankliniella fusca—Nicotine sulphate

Chamberlin, J. Ec. Ent. 25: 135, 1932.

Frankliniella gossypii

Quayle, J. Ec. Ent. 27: 100, 1934.

Frankliniella insularis and Spotted wilt

Hcald, Man. of Pl. Dis. 2: 252, 1933.

biKunkel, Que. Soc. Prot. Pl. R. 25/26:
29, 1934.

Frankliniella occidentalis

Bailey, Hilgardia 7: 499-500, 1933.

iCardon, Utah B. 235: 56, 1932.

Sakimura, J. Ec. Ent. 23: 1009, 1930.

biSorenson, Utah C. 98: 13-14, 1932.

Frankliniella spp.

biLockwood, Cal. Agr. Mo. B. 22: 323-
325, 1933.

Frankliniella stylosa

Watson, Fla. Ent. 16: 61, 1933.

Frankliniella tritici (Fitch) (Flower thrips)*

Antisdale, Glad. Rev. 9: 240, 1932.

Dean, Kans. St. Hort. Soc. Bien. R. 40:
145, 1930.

iGains, J. Ec. Ent. 27: 740-743, 1934.

iHutson, Mich. Sp. B. 244: 22-23, 1933.

Lockwood, Cal. Agr. Mo. B. 18: 765-
766, 1929.

McDaniel, Mich. Sp. B. 214: 44, 1931.

iNewcomer, USDA C. 270: 34-35, 1933.

iPettit, Mich. Ent. R. f. 1930: 7.

iPettit, Mich. St. Bd. Agr. R. 69: 209,
1930.

bSmith & Hansen, Cal. B. 506: 35, 1931.

Snapp, USDA FB 1557 rev.: 38, 1931.

Thomas, Gaines & Fletcher, Tex. R.

47: 48, 1934.

Watson, Fla. R. f. 1929: 53-54; R. f.
1930: 67; R. 45: 70, 1931; R. f. 1932:
69.

Watson, Flor. Exch. 79(3): 48, 1932.

Watson, Fla. Ent. 16: 61, 1933.

iWatson & Berger, Fla. Ext. B. 67: 94-
99, 1932.

Watts, S.C. R. 41: 71, 1931; R. 47: 60-
61, 1934.

Watts, J. Ec. Ent. 27: 1158-1159, 1934.

Frankliniella vaccinii

Phipps, Maine B. 356: 125-128, 1930.

Frankliniella williamsi

Watson, Fla. Ent. 16: 61, 1933.

**Fresh water swamp mosquito, see Aedes
vexans**

Friezea grandis

inMills, Collembola of Iowa: 21, 1934.

Friezea pentacantha

inMills, Collembola of Iowa: 20-21, 1934.

**Fringe-legged mosquito, see Psorophora
ciliata**

**Fringe-winged apple bud moth, see Holco-
cera maligemmella**

Frogs—Insect food

Whitney, Cal. Cult. 78: 493, 1932.

Frontina armigera

iBruner, Rev. de Agr. Cuba 14(22): 96,
1934.

Frontipoda americana

biMarshall, Wis. Acad. Sci. Trans. 27:
341, 1932.

Fruit beetle, see Cotinis texana

Fruit flies

Colón, P.R. Dept. Agr. & Com. Inf.

An. Span. ed. f. 1931-1932: 40.

Dampf, Tex. Cit. 10(9): 14-15, 1934.

Fruit flies *Cont'd*

- Dominguez, P.R. Dept. Agr. & Com.
Inf. An. Span. ed. f. 1932/3: 153-154.
biGambrell, J. Ec. Ent. 24: 226-232, '31.
Goucher, N.S. Dept. Agr. R. f. 1931:
125, 1932.
Kisliuk, P. Ent. Soc. Wash. 35: 211,
1933.
Marlatt, USDA Ent. R. f. 1933: 11-12.
biQuayle, Cal. B. 542: 57-60, 1932.
Strong, USDA Ent. R. f. 1934: 18.
N.S. Dept. Agr. R. f. 1931: 125, 1932.
USDA PQCA List of Pests Intercepted,
1929: 249.

Fruit insects

- iAgete, Rev. de Agr. Cuba 14(5): 38-46,
1932.
Ayers, Va. Fr. 21(1): 73-76, 1933.
Barss & Mote, Oreg. Ext. B. 431: 11-
13, 1931.
Borden, Cal. Agr. Mo. B. 19: 572-573,
1930.
Bourne, Mass. Fr. Grow. Assoc. R. 36:
242-245, 1930.
Britton, Conn. B. 315: 491-493, 1930.
Britton, Conn. B. 327: 462-464, 1931.
iBrowne, Cal. Agr. Mo. B. 20: 633-643,
1931.
Buckell, Ent. Soc. Ont. R. 60: 32, 1930;
R. 62: 33-34, 1932; R. 65: 42-43, '34.
iCaesar, Ont. B. 356, 1930, 70p.
Caesar, Can. Hort. Fr. & Truck ed. 56:
25, 1933.
Caesar, Ont. Min. Agr. R. f. 1932: 45-
46, 1933.
Caesar & Ross, Ent. Soc. Ont. R. 63:
15-16, 1932.
Call, Kans. Bien. R. 5: 108, 1930.
Carter & Ito, Pineapple Quar. 1: 169-
170, 1931.
Davis, Ind. Acad. Sci. P. 43: 198-199,
1933.
[Deaver], Better Fruit 29(1): 17, 1934.
Dietz, N.Y. (St.) Inst. Appl'd Agr.
L.I. Control Pests of Tree Fruits,
1929, 36p.
Eddy, Ky. St. Hort. Soc. Trans. 77:
79-87, 1932.
Eddy et al, Ky. B. 353: 205-239, 1934.
Felt, Bartlett Tree Res. Lab. ed. B. 18,
1930. 35p.

- Fors, Rev. de Agr. Cuba 14(19): 45-46,
1934.
Gardner, Mich. Bien. R. 1933-1934: 30.
Gorham et al, Ent. Soc. Ont. R. 60:
12-14, 1930.
Gorham et al, Ent. Soc. Ont. R. 62: 20,
1932.
iGranovsky, Minn. Hort. 59: 60-61, '31.
Grimes, Kans. Bien. R. 7: 105-106, '34.
Guyton, Penn. St. Hort. Assoc. P. 71:
79-83, 1930.
Haegele, Ida. St. Hort. Assoc. Conv.
38: 79-83, 1933.
Harris, Iowa Hort. Soc. P. 67: 23-30,
1932.
Headlee, N.J. St. Hort. Soc. P. f. 1930:
43-65, 1931; P. f. 1931: 43-58.
Hedrick, N.Y. (Gen.) R. 49: 65-66,
1930; R. 50: 66-71, 1931.
Hooker, USDA Exp. Sta. R. f. 1929:
40-42, 1930; R. f. 1931: 48-49, 1932.
Hough, J. Ec. Ent. 24: 658-659, 1931.
iHutson, Mich. Sp. B. 244, 1933, 40p.
Hyslop, Inter-Amer. Conf. Agr. For. &
Animal Indus., Wash., D.C. Doc.
Material 2: 199-200, 1930.
Isely, Ark. St. Hort. Soc. P. 50: 27-30,
1930.
King & Arnason, Ent. Soc. Ont. R.
62: 28, 1932.
Knight, USDA YB f. 1933: 363-364.
Linfield, Mont. R. 38: 46-47, 1931.
biLockwood, Cal. Agr. Mo. B. 22: 319-
345, 1933.
Mackie, Cal. Agr. Mo. B. 19: 833-835,
1930.
McMunn, Ill. St. Hort. Soc. Trans. 66:
347-349, 1932.
biMex. Agr. & Fomento. Principales
Plagas: 90-135, 1930.
iMcWhorter et al, Oreg. Ext. B. 470:
1-14, 1934.
iMaheux, Que. Min. de l'Agr. B. 118:
26-30, 1933.
Maheux & Petch, Ent. Soc. Ont. R. 60:
14-15, 1930.
Marlatt, USDA Ent. R. f. 1933: 3-10.
Mitchener, Ent. Soc. Ont. R. 62: 25,
1932.
Moulton, Cal. Agr. Mo. B. 20: 754, '32.
Newcomer, Oreg. St. Hort. Soc. R. 23:
52-56, 1932.

- Pack, Utah Acad. Sci. P. 7: 59, 1930.
 Pettit & Hutson, Mich. C. B. 137: 40-52, 1931.
 Pickett, N.S. Fr. Grow. Assoc. R. 70: 52-55, 1933.
 Pickett & Filing, Kans. C. 169: 15-20, 1932.
 Porter & White, USDA YB f. 1933: 364-368.
 Quaintance & Siegler, USDA FB 1666: 1-2, 1931.
 Regan, Wash. St. Hort. Assoc. P. 25: 130-136, 1929.
 iSanderson, Ins. Pests Farm ed. 3: 295-477, 1931.
 iSheaffer, Ind. Dept. Conserv. Pub. 103: 23-32, 1930.
 Strand, Mont. B. 269: 15, 1932.
 Strong, USDA Ent. R. f. 1934: 16-18.
 Talbert, Amer. Fr. Grow. Mag. 53(4): 6, 1933.
 Teske, Va. Fr. 21(1): 76-82, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 69-74, 1933; 65: 118-122, 1934.
 Van Leeuwen, USDA C. 237, 1932, 14p.
 Wakeland, Ida. St. Hort. Assoc. P. 36: 157-161, 1931.
 Walker, Fla. R. f. 1932: 76-77.
 Warren, Maritime Farm. 37(16): 5, '32.
 Watson, Fla. St. Hort. Soc. P. 44: 146-147, 1931.
 Wheeler, Cal. Cult. 74: 611, 1933.
 iWolcott, Ec. Ent. of W. I.: 493-524, 1933.
 Cornell Rur. School Leaf. 28(2): 14-15, 1934.
 N.J. St. Hort. Soc. P. f. 1931: 41-42.
 Northw. Fr. Grow. 6(2): 4, 11, 1934.
- Fruit insects—Spraying**
 Davis, Purdue Univ. B. 32(7): 45-49, 1932.
 Hutchison, Cal. R. f. 1932-1934: 73.
 Mumford, Ill. R. 45: 141-142, 1932.
 Sherwood, W. Va. Ext. Orch. Spray Serv. Inf. Not. 2: 1933.
 biStandard Oil Co. Tech. Div. B. 228-C, 1933, 34p.
 iVa. Ext. B. Feb. 1931, 31p.
- Fruit tree bark beetle, see Scolytus rugulosus**
 *Fruit tree leaf roller, see *Cacoecia argyrospila* (Walk.)
- Fulgoridae—Indiana**
 Heaton, Bklyn. Ent. Soc. B. 29: 107-115, 1934.
- Fulgorothrips, F. priesneri**
 nFaure, Bklyn. Ent. Soc. B. 28: 62-65, 1933.
- Fullawaya saliciradicis**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 926-927, 1931.
- *Fuller's rose beetle, see *Pantomorus godmani* (Crotch.)
- Fulvius geniculatus**
 nVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21(4): 29, 1933.
- Fulvius imbecilis**
 Torre-Bueno, Bklyn. Ent. Soc. B. 29: 124, 1934.
- Fumea casta**
 iFarquhar, Psyche 41: 19-29, 1934.
 iJones & Farquhar, Psyche 41: 30-35, 1934.
- Fumigants**
 Davis, Purdue Univ. B. 32(7): 27-31, 1932.
 Knight, USDA Bur. Chem. & Soils R. f. 1931: 28-29; R. f. 1932: 19; R. f. 1933: 28-29; R. f. 1934, 28-29.
 Mackie, Cal. Agr. Mo. B. 18: 756-758, 1929.
 Mackie, Pac. Sci. Cong. 5, P. 5: 3559-3565, 1934.
 biMetcalf & Flint, Fund. of Ins. Life ed. 1: 389-399, 1932.
 Mex. Agr. & Fomento. Principales Plagas: 272-277, 1930.
 Munro & Riddle, N.Dak. C. 42 rev.: 7-8, 1933.
 Ridlon, U.S. Pub. Health R. 46: 1623-1635, 1931.
 bRoark, Indus. & Engin. Chem. 24: 646-647, 1932.
 Sanderson, Insect Pests Farm ed. 3: 50-55, 1931.
 biShepard & Lindgren, J. Ec. Ent. 27: 842-845, 1934.
 bThomas, Penn. TB 259: 11-18, 1930.
 Twinn, Sci. Agr. 13: 405, 1933.
 USDA YB f. 1932: 73-74.
- Fumigants—Aliphatic compounds**
 Roark, USDA TB 162, 1929, 52p.

- Fumigants—Allyl iso-thiocyanate—Benzaldehyde**
 biPratt, Swain & Eldred, J. Ec. Ent. 26: 1036-1041, 1933.
- Fumigants—Benzyl bromide**
 biPratt, Swain, & Eldred, J. Ec. Ent. 26: 1036-1041, 1933.
- Fumigants—Calcium carbonate**
 de Ong, Science n.s. 79(2042 sup.): 5-6, 1934.
- Fumigants—Calcium cyanide**
 Bruner & Arango, Rev. de Agr. Cuba 14(2): 75-77, 1932.
 biClark, Tex. Cit. 8(10): 20-21, 1932.
 Del Curto, Tex. Dept. Agr. B. 106: 30-31, 1931.
 Dustan, Que. Soc. Prot. Pl. R. 23/24: 34-35, 1932.
 H.L.K., Cal. Cult. 79: 348, 1932.
 Hamilton, N.J. C. 333, 1934, 4p.
 iHorsfall, Nat. & Amer. Miller 62(3): 40-41, 1934.
 biMoore, J. Ec. Ent. 26: 1146-1161, 1933.
 Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 34, 1930.
 Quaintance & Siegler, USDA FB 1666: 31-32, 1931.
 iRessler, Nat. & Amer. Miller 62(3): 42-44, 1934.
 Smith, USDA C. 301: 7, 1933.
 Smith, Kans. Agr. Student 13: 84, 86-87, 1934.
 Steinweden, J. Ec. Ent. 27: 919-923, '34.
 Strong, USDA SRA BPQ 112: 73-74, 1932.
 Tate, Iowa St. Hort. Soc. Trans. 68: 174, 1933.
- Fumigants—Calibration**
 iCraig & Richardson, J. Ec. Ent. 23: 988-991, 1930.
- Fumigants—Carbon bisulphide**
 Back, USDA FB 1029 rev.: 22-23, 1931.
 Bruner, Agete & Boucle, Rev. de Agr. Cuba 11(10): 34, 1930.
 Bruner & Arango, Rev. de Agr. Cuba 14(2): 73, 1932.
 Cates, Miller's Rev. 97(8): 12, 1933.
 iHarrison, Purdue Agr. 26(34): 45, 1931.
 iLane, J. Ec. Ent. 25: 958-967, 1932.
 McDaniel, J. Ec. Ent. 25: 732, 1932.
 Parks & Jones, Ohio Ext. B. 97 rev.: 7, 1933.
- biShepard & Lindgram, J. Ec. Ent. 27: 842-845, 1934.
 bStirrett & Arnott, Ent. Soc. Ont. R. 63: 52-53, 1932.
 Wolters, Hawaiian Pl. Rec. 38: 266, '34.
- Fumigants—Carbon dioxide**
 Cotton, J. Ec. Ent. 23: 231-233, 1930.
 Marlatt, USDA Ent. R. f. 1930: 59-60.
 Refrig. Engin. 21: 192, 1931.
- Fumigants—"Carboxide" (Ethylene oxide & carbon dioxide)**
 iBack et al., Amer. Miller 58: 738, 1930.
 biBrown, U.S. Nav. Med. B. 31: 253-268, 1933.
 iBrown, U.S. Nav. Med. B. 32: 294-317, 1934.
- Fumigants—Chloropicrin**
 Barnes & Fisher, J. Ec. Ent. 27: 860, 1934.
 Roark, USDA Misc. Pub. 176, 1934, 88p.
 Wolters, Hawaiian Pl. Rec. 38: 266, '34.
- Fumigants—Cyanid drift gas**
 Woglum, Cal. Fr. Grow. Exch. B. 11: 25-26, 1934.
- Fumigants—Cyanide**
 Bocker, Soap 8(8): 83, 85, 87, 1932.
 Bocker, Soap 9(3): 85, 1933.
 Conn. Health B. 48: 232, 1934.
- Fumigants—Cyanogas**
 Blackwell, Okla. R. f. 1926-1930: 268-269.
 Hoffman, J. Ec. Ent. 26: 293-294, 1933.
 Williams, U.S. Pub. Health R. 46: 2048-2059, 1931.
- Fumigants—Cyanogen chloride**
 Twinn, Que. Soc. Prot. Pl. R. 25/26: 57, 1934.
- Fumigants—Ethyl thiocyanate**
 biPratt, Swain & Eldred, J. Ec. Ent. 26: 1036-1041, 1933.
- Fumigants—Ethylene**
 Russ, Hoyt & Clark, Oil, Paint & Drug Report. 117: 16, 19, 1930.
- Fumigants—Ethylene dichloride**
 Dustan, Que. Soc. Prot. Pl. R. 23/24: 34, 1932.
 Herrick & Griswold, J. Ec. Ent. 25: 243-248, 1932.
 Huff, Glad. Rev. 9: 318, 1932.
 biShepard & Lindgram, J. Ec. Ent. 27: 842-845, 1934.

Fumigants—Ethylene dichloride-carbon tetrachloride

- Barnes & Fisher, J. Ec. Ent. 27: 860, 1934.
 Collins, Can. Glad. Soc. B. 9: 65-66, 1932.
 Gray, Que. Soc. Prot. Pl. R. 25/26: 47-48, 1934.
 Herrick & Griswold, J. Ec. Ent. 25: 243-248, 1932.
 Tate, Iowa St. Hort. Soc. Trans. 68: 174-175, 1933.
 Twinn, Que. Soc. Prot. Pl. R. 25/26: 56-57, 1934.
 USDA YB f. 1933: 35.

Fumigants—Ethylene oxide

- A.E.B., Sci. Amer. 147: 110, 1932.
 Back et al, J. Ec. Ent. 23: 226-231, '30.
 bHorsfall, J. Ec. Ent. 27: 405-409, 1934.
 Mackie, Cal. Agr. Mo. B. 19: 845-846, 1930.
 Marlatt, USDA Ent. R. f. 1930: 54-57.
 Osburn, J. N.Y. Ent. Soc. 39: 567-574, 1931.
 Young, USDA Off. Rec. 11: 37, 1932.
 Midwest Fruitman 5(2): 9, 1931.
 USDA Off. Rec. 10: 75, 1931.

Fumigants—Ethylene oxide and carbon dioxide

- Cotton, J. Ec. Ent. 24: 576, 1931.
 Twinn, Que. Soc. Prot. Pl. R. 25/26: 53-56, 1934.
 USDA YB f. 1933: 35.

Fumigants—Ethylene oxide and dry ice

- Siebel, Tech. Rev. 5: 108, 1931.

Fumigants—Formulas

- Wilkinson, Conn. (Storrs) Ext. B. 196: 8-9, 1933.

Fumigants—Hydrocyanic acid gas

- iBack & Cotton, USDA FB 1670, 1932, 21p.
 bBarcroft, J. Hyg. 31(1): 1-34, 1931.
 biBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 14-19, 1931.
 iBruner, Agete & Boucle, Rev. de Agr. Cuba 11(10): 33-34, 1930.
 iBuchanan, Chem. Markets 29: 377-378, 1931.
 iBuchanan, Chem. Markets 30: 443-446, 1932.
 Camp & Wilmot, Fla. St. Pl. Bd. Mo. B. 15(5-8): 1-35, 1931.

- biCamp & Wilmot, J. Ec. Ent. 25: 476-486, 1932.

- iCrumb & Chamberlin, J. Ec. Ent. 26: 259-262, 1933.

- biCupples, Indus. & Engin. Chem. Anal. Ed. 5: 36-38, 50-52, 1933.

- Defries, Can. Pub. Health J. 23: 572-573, 1932.

- Eastman, Cal. Cit. 16: 478, 1931.

- Eberling, Cal. Agr. Mo. B. 20: 669-672, 1931.

- Gatlin, United Fr. Co. Med. Dept. R. 18: 319-326, 1931.

- bGray & Kirkpatrick, Cal. Agr. Mo. B. 20: 373-382, 1931.

- Guba, Mass B. 280: 204-205, 1932.

- biHaas, J. Agr. Res. 49: 477-492, 1934.

- Headlee, N.J. C. 326, 1934, 4p.

- iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 55-58, 1934.

- biMoore, J. Ec. Ent. 26: 1140-1161, 1933; 27: 1043-1055, 1934.

- Parks & Jones, Ohio Ext. B. 97: 37-40, 1930.

- biPratt, Swain & Eldred, J. Ec. Ent. 26: 1031-1041, 1933.

- bQuayle, Cal. B. 542: 65-67, 1932.

- iQuayle & Rohrbach, J. Ec. Ent. 27: 1083-1095, 1934.

- iRessler, Nat. & Amer. Miller 60(8): 22-23, 1932.

- biRidlon, U.S. Pub. Health R. 46: 1572-1578, 1623-1636, 1931.

- Riley & Johannsen, Med. Ent.: 423-426, 1932.

- Roessler & Hasslacher, Chem. Co. Ent. Sec. Effect HCN on Foods, 1931, 12p.

- iRoessler & Hasslacher, Chem. Co. Fumigation of Flour Mills, 1932, 31p.

- Rosen, Soap 8(1): 111, 113, 115, 1932.

- biSnyder, Pac. Sci. Cong. 4, P. 4: 344-145, 1930.

- Steinweden, J. Ec. Ent. 27: 919-923, 1934.

- Thomas, Oil, Paint & Drug Report, 123(24): 33, 1933.

- bTrautman, Extermin. Log. 2(9): 15, 17, 1934.

- Twinn, Que. Soc. Prot. Pl. R. 25/26: 52-53, 1934.

- Williams, Amer. J. Pub. Health 21: 632, 1931.

- Fumigants—Hydrocyanic acid gas** *Cont'd*
 iWilliams, U.S. Pub. Health R. 46: 1013-1031, 1680-1694, 1755-1761, 1823-1836, 2048-2059, 1931.
 Williams, Can. Pub. Health J. 23: 567-570, 1932.
 Williams, Nat. Safety News 25(3): 34, 36, 38, 62-63, 1932.
 Williams, Extermin. Log. 1(11): 9, 18-19, 1933.
 Wilmot, Fla. Ent. 16: 28-30, 1932.
 Young & Doucette, Oil, Paint & Drug Report 117(16): 19, 1930.
- Fumigants—Hydrogen cyanide**
 biWebster, J. Ec. Ent. 26: 1017-1018, 1933.
 Amer. Pub. Health Assoc. J. 21: 542-543, 1931.
- Fumigants—Hydrogenated naphthalene**
 Colman, J. Ec. Ent. 27: 860, 1934.
- Fumigants—Malium**
 Bean-bag 16(9): 14, 1934.
 Seed World 35(4): 28, 1934.
- Fumigants—Mixed gases**
 biJones, J. Ec. Ent. 26: 895-902, 1933.
- Fumigants—Naphthalene**
 bBentley & Barlett, Tenn. Pl. Dis. Control B. 57: 19-20, 1931.
 iBillings, J. Ec. Ent. 27: 401-405, 1934.
 biBinnington & Geddes, Indus. & Engin. Chem. Anal. ed. 6: 461-463, 1934.
 Cole, Oreg. Dept. Agr. B. 15: 11-12, 1933.
 Dustan, Que. Soc. Prot. Pl. R. 23/24: 35, 1932.
 bFleming & Baker, USDA TB 427, 1934, 28p.
 Friend, Conn. Veg. Grow. Assoc. R. 20: 68-69, 1933.
 Fuller, Flor. Exch. 78(8): 60, 1931.
 Fulton, South Cult. 9(4): 11, 1933.
 bGimingham, Pac. Sci. Cong. 5 P. 5: 3431, 1934.
 iGlasgow, Market Grow. J. 50: 262-263, 1932.
 Gray, Glad. Rev. 10: 224-225, 1933.
 Hamilton, N.J. R. 52: 222-226, 1931.
 biHartzell & Wilcoxon, Boyce Thompson Inst. Contrib. 2: 512-522, 1930.
 biHartzell & Wilcoxon, J. Ec. Ent. 23: 608-618, 1930.
- Herrick & Griswold, J. Ec. Ent. 26: 446-451, 1933.
 Hornberger, Hornberger's Glad. Ann. f. 1933: 5-6.
 Lacroix, Conn. B. 335: 267-268, 1932.
 Layrie, Amer. Carnation Soc. P. 39: 32-35, 1930.
 Lipp, J. Ec. Ent. 27: 500-502, 1934.
 McDaniel, Mich. Quar. B. 15(3): 171, 1933.
 iMaughan, J. Ec. Ent. 26: 143-147, '33.
 Miller, Assoc. Off. Agr. Chem. J. 17: 308-313, 1934.
 Pridham, N.Y. (C.) Ext. B. 231: 57, 1932.
 Smith, USDA C. 301: 7-8, 1933.
 bStear, J. Ec. Ent. 26: 903-906, 1933.
 Tate, Iowa St. Hort. Soc. Trans. 68: 174, 1933.
 Weigel, New Eng. Glad. Soc. YB 1933: 114-116.
 Weigel, W. Wash. Hort. Assoc. P. 25: 16-17, 1934.
 Whitcomb, Mass. B. 280: 219-220, 1932; B. 293: 33, 1933; B. 305: 36, 1934.
- biWilcoxon et al, Boyce Thompson Inst. Contrib. 5: 461-469, 1933.
- Fumigants—Nicotine**
 Braunton, Pac. Rur. Press 127: 194, 1934.
 Smith, Better Fruit 29(6): 5, 1934.
- †**Fumigants—Paradichlorobenzene**
 A.H.P., Textile Colorist, 56: 178, '34.
 Alden, Ga. St. Bd. Ent. B. 76: 6-7, '32.
 iBillings, J. Ec. Ent. 27: 401-405, 1934.
 iBrinson, Purdue Agr. 27: 55, 61, 1933.
 Brooks & McDowell, Tex. C. 70: 21, 1934.
 Bruner & Arango, Rev. de Agr. Cuba 14(2): 74-75, 1932.
 C.L.L., Flor. Exch. 77(18): 32, 1931.
 Essig & Hoskins, Cal. Ext. C. 87: 129-131, 1934.
 biGambrell, J. Ec. Ent. 27: 1165-1166, 1934.
 iHamilton & Henderson, Amer. Orchid Soc. B. 2: 48-50, 1933.
 Hasen, Missouri B. 272: 58, 1929.
 Herrick & Griswold, J. Ec. Ent. 24: 420-425, 1931.

- biHerrick & Griswold, N.Y. (C.) Ext. B.
202: 34-37, 1931.
- Hutson, Mich. St. Hort. Soc. R. 60:
138-141, 1931.
- iLacroix, Conn. B. 350: 494-498, 1932.
- Lipp, J. Ec. Ent. 27: 500-502, 1934.
- Mackie, Cal. Agr. Mo. B. 23: 300-303,
1934.
- Mumford, Ill. R. 42: 149-150, 1929.
- O'Neill, Ga. St. Ent. C. 42: 10, 1932.
- Phipps, Missouri Bot. Gard. B. 19:
116-117, 1931.
- Quaintance, Porter & Snapp, USDA
FB 1246, rev.: 5-11, 1932.
- Quaintance & Siegler, USDA FB 1666:
32, 1931.
- Robinson, Oreg. B. 259: 24, 1930.
- Snapp, USDA C. 172, 1931, 11p.
- Snapp, USDA FB 1557 rev.: 12-17, 40-
41, 1931.
- bSnapp & Swingle, J. Ec. Ent. 23: 636-
638, 1930.
- Steinweden, J. Ec. Ent. 27: 919-923,
1934.
- Torre-Bueno, Bklyn. Ent. Soc. B. 25:
27, 1930.
- Trent, Okla. Ext. C. 168 rev.: 5-6, '30.
- Wolters, Hawaiian Pl. Rec. 38: 267,
1934.
- Fumigants—Paradichlorobenzene & Cot-
ton seed oil**
Eaton, Nat. Shade Tree Conf. P. 8: 53,
1932.
- McDaniel, Mich. Sp. B. 238: 4, 1934.
- Snapp, Cal. Agr. Mo. B. 20: 164, 1931.
- Fumigants—Perchlor methyl mercaptan**
biPratt, Swain & Eldred, J. Ec. Ent. 26:
1036-1041, 1933.
- Fumigants—Propylene dichloride**
Dibble, J. Ec. Ent. 26: 893-895, 1933.
- Hutson, J. Ec. Ent. 26: 291, 1933.
- biShepard & Lindgram, J. Ec. Ent. 27:
842-845, 1934.
- Fumigants—Salicyl aldehyde**
biPratt, Swain & Eldred, J. Ec. Ent. 26:
1036-1041, 1933.
- Fumigants—Semesan**
Tate, Iowa St. Hort. Soc. Trans. 68:
175, 1933.
- Fumigants—Sodium cyanide**
iMiddleton & Smith, USDA C. 305: 5-
7, 1934.
- Strong, USDA BPQ SRA 112: 74, 1932.
- Fumigants—Sodium cyanide**
Pac. Rur. Press 122: 594, 1931.
- Fumigants—Sodium fluoride**
Riepp, Extermin. Log. 1(3): 12-13, '33.
- Fumigants—Sulphur**
iDavis & Young, J. Ec. Ent. 27: 518-
525, 1934.
- Fumigants—Sulphur dioxide**
biWilliams, U.S. Pub. Health R. 49: 89-
100, 192-208, 1934.
- Fumigants—Sulphuric acid**
Strong, USDA SRA BPQ 112: 74, 1932.
- Fumigants—Tests**
biGinsburg, J. Agr. Res. 46: 1131-1136,
1933.
- biLehman, J. Ec. Ent. 26: 1042-1051, '33.
- bRoark, Pac. Sci. Cong. 5, P. 5: 3407,
1934.
- Fumigants—Thiophenol**
biPratt, Swain & Eldred, J. Ec. Ent. 26:
1036-1041, 1933.
- Fumigants—Toxicity**
biCotton, J. Ec. Ent. 25: 1088-1103, '32.
- bStrand, Ind. & Engin. Chem. Anal. Ed.
2: 4-8, 1930.
- bWilliams, Chem. Markets 32: 45-47,
1933.
- Fumigants—Vapor heat**
Doucette & Baker, J. Ec. Ent. 25: 417-
418, 1932.
- biLatta, J. Ec. Ent. 25: 1020-1026, 1932.
- Latta, Wash. St. Hort. Soc. P. 28: 294-
297, 1932.
- iLatta & Doucette, Flor. Rev. 70(1806):
11-12, 1932.
- Spruijt & Blanton, J. Ec. Ent. 26: 613-
620, 1933.
- Fumigants—Vapor pressure**
bNelson, Indus. & Engin. Chem. 22:
971-972, 1930.
- Fumigants—Warning gases**
Becker, Extermin. Log. 2(6): 8, 1934.
- Cannon, Extermin. Log. 2(3): 9, 11,
1934.
- Fumigants—Zyklon discoids**
iExtermin. Log. 1(3): 10-11, 1933.
- Fumigating apparatus**
Bruner & Arango, Rev. de Agr. Cuba
14(2): 73-77, 1932.
- iBugbee, Compressed Air Mag. 35:
3260-3264, 1930.

Fumigating apparatus *Cont'd*

biCupples, Indus. & Engin. Chem. Anal.
Ed. 5: 36-38, 1933.

iGooch, Food Ind. 5: 16-19, 1933.

iJohnson, Nat. & Amer. Miller 62(3):
51, 54, 73, 1934.

iLane, J. Ec. Ent. 25: 959-960, 1932.

iLawton, Nat. & Amer. Miller 59(7): 34,
1934.

biMoore, J. Ec. Ent. 27: 1049-1055, '34.

iSmith, Meyer & Persing, J. Ec. Ent.
27: 1194-1195, 1934.

iSteiner, Food Ind. 4: 240-242, 1932.

iWilliams, U.S. Pub. Health R. 49: 196-
208, 1934.

USDA Off. Rec. 10: 240, 1931.

Fumigation

Back, USDA FB 1029: 20-28, 1931.

Cates, Miller's Rev. 97(8): 12, 1933.

Doane, Common Pests: 314-315, 1931.

Goucher, N.S. Dept. Agr. R. f. 1930:
81-83.

Hayes, Golfdom 7(4): 22-23, 1933.

Johnson, Extermin. Log. 2(11): 7-8,
10-11, 1934.

McDaniel, Mich. Sp. B. 214: 14-19, '31.

biMoore, J. Ec. Ent. 27: 1042-1055, 1934.

iO'Kane, Good Housekeeping, 92(5):
98-99, 1931.

Pratt, Cal. Cit. 16: 476, 1931.

Quayle, Cal. Cit. 18: 166, 184, 1933;
19: 264, 1934.

Roark & Nelson, J. Ec. Ent. 23: 985-
987, 1930.

Smith & Armitage, Cal. B. 509: 57-59,
1931.

Vickery & Browne, Hdbk. Pest Con-
trol, Sec. 5: 1-14, 1930.

Watson, Fla. B. 232: 16-17, 1931.

Williams, Extermin. Log. 2(7): 9-10,
1934.

Wilmot, Fla. R. f. 1934: 69.

Fumigation—Avocados

Cal. Cult. 78: 273, 1932.

Pac. Rur. Press, 123: 236, 1932.

Fumigation—Bananas

Camp & Wilmot, Fla. St. Pl. Bd. Mo.
B. 15(5-8): 3-6, 1931.

Fumigation—Beans

Marlatt, USDA Ent. R. f. 1930: 58.

Fumigation—Books

Farrand, Lib. J. 57: 389, 1932.

iPop. Mech. 60: 198, 1933.

Fumigation—Boxes

Quaintance & Siegler, USDA FB 1666:
29-30, 1931.

Fumigation—Boxwood

iMiddleton & Smith, USDA C. 305: 5-
7, 1934.

Fumigation—Bulbs

bEvans, Glad. Rev. 9: 98, 1932.

iHuff, Glad. Rev. 9: 317-320, 1932.

biLatta, J. Ec. Ent. 25: 1020-1026, 1932.

Spruijt & Blanton, J. Ec. Ent. 26: 613-
620, 1933.

Fumigation—Candy bars

Williamson, Food Ind. 5(5): 166-167,
1933.

Fumigation—Carnations

Layrie, P. Amer. Carnation Soc. 39:
32-35, 1930.

Fumigation—Chicken house

Cal. Cult. 76: 214, 1931.

Fumigation—Citrus

iClark & Friend, Tex. Cit. 9(6): 12, 16,
1932.

iCupples, J. Ec. Ent. 26: 262-269, 1933.

bCurry, Cal. Cult. 74: 623, 1930.

Quayle, Cal. B. 542: 72-79, 1932.

Smith, Cit. Leaves, 12(3): 13, 1932.

Watson & Berger, Fla. Ext. B. 67: 66-
67, 1932.

Woglum, Cal. Cit. 19: 145, 1934.

Woglum, Cal. Fr. Grow. Exch. B. 11:
25-26, 1934.

bWoglum & LaFollette, J. Ec. Ent. 27:
978-980, 1934.

Fumigation—Corn

iStoutamire, Fla. Dept. Agr. B. n.s. 54:
13-15, 1931.

Fumigation—Corn cribs

Watson, Fla. Grow. 39(11): 13, 1931.

Fumigation—Cucumber plants

Guba, Mass. B. 280: 204-205, 1932.

Fumigation—Dried fruit

Marlatt, USDA Ent. R. f. 1930: 58.

Fumigation—Efficiency—Auditory check

Middleton & Smith, J. Ec. Ent. 23: 289,
1930.

Fumigation—Factories

Hinds, Extermin. Log. 1(1): 7-8, 1933.

Fumigation—Figs

iSimmons, Reed. & McGregor, USDA
C. 157, 50-56, 1931.

- iStiner, Food Ind. 4: 240-242, 1932.
- Fumigation—Foodstuffs**
- iGooch, Food Ind. 5: 16-19, 1933.
- Roark, Indus. & Engin. Chem. 24: 646-648, 1932.
- bWilliams, Amer. J. Pub. Health 23: 561-566, 1933.
- bWilliams, Chem. Markets 32: 45-47, 1933.
- Williams, Extermin. Log 2(5): 9-10, 15, 1934.
- Fumigation—Freight cars**
- Simpson, Coop. Manag. & Farm. 23(1): 16, 1933.
- Fumigation—Furs**
- Collins, Tech. Assoc. Fur. Ind. J. 3(2): 39-48, 1932.
- iRodda, Wkly. Underwrit. 123: 793-795, 1930.
- Fumigation—Gladiolus bulbs**
- Dustan, Ont. Hort. Soc. R. 26: 32-33, 1931.
- Dustan, Que. Soc. Prot. Pl. R. 23/24: 34, 1932.
- biGambrell, J. Ec. Ent. 27: 1165-1166, 1934.
- Hamilton, N.J. C. 333: 2-3, 1934.
- Tate, Iowa St. Hort. Soc. Trans. 68: 174, 1933.
- Weigel, W. Wash. Hort. Assoc. P. 25: 16-17, 1934.
- Fumigation—Grain, see Fumigation—Stored grain**
- Fumigation—Greenhouses**
- Bosher, Maritime Farmer 40(6): 12, 1934.
- Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 102-106, 1930.
- iDavis & Young, J. Ec. Ent. 27: 518-525, 1934.
- biHartzell & Wilcoxon, Boyce Thompson Inst. Contrib. 2: 512-522, 1930.
- Whitcomb, Mass. B. 280: 219-220, 1932; B. 305: 36, 1934.
- biWilcoxon et al, Boyce Thompson Inst. Contrib. 5: 461-469, 1933.
- Fumigation—History**
- iEssig, Hist. of Ent.: 468-494, 1931.
- Fumigation—House—Hydrocyanic acid gas**
- Park & Jones, Ohio Ext. B. 97: 37-40, 1930.
- Fumigation—Household insects**
- iBack & Cotton, USDA FB 1670: 1932, 21p.
- iHerrick & Griswold, N.Y. (C.) Ext. B. 202, rev.: 55-58, 1934.
- Hinds, Extermin. Log 1(4): 7, 1933.
- Jones, Pictorial Rev. 32(9): 54, 1931.
- Parks & Jones, Ohio Ext. B. 97, rev.: 30-32, 1933.
- Riley & Johannsen, Med. Ent.: 423-426, 1932.
- iWakeland, Ida. Ext. C. 38, 1931, 8p.
- Fumigation—Investigations**
- Fleming, N.J. St. Dept. Agr. R. 15: 153-154, 1930.
- Newell, Fla. St. Pl. Bd. Bien. R. 9: 15-16, 1933.
- Fumigation—Legislation**
- Kapp, Extermin. Log 2(8): 10-11, 17, 1934.
- Plunkett, Soap 7(12): 121, 123, 125, '31.
- Williams, Extermin. Log. 2(10): 12-14, 19-20, 1934.
- Soap 7(11): 101, 1931.
- Fumigation—Mills**
- Dean & Schenk, Northw. Miller, 162: 475, 1930.
- Gray, Que. Soc. Prot. Pl. R. 25/26: 48-51, 1934.
- Haas, Millers Rev. 94(1): 26-27, 1930.
- Hodges, Nat. & Amer. Miller 62(3): 77, 1934.
- iJohnson, Nat. & Amer. Miller 62(3): 51, 54, 73-74, 1934.
- iMayor, Nat. & Amer. Miller 62(3): 39-40, 1934.
- iRessler, Nat. & Amer. Miller 60(8): 22-23, 1932; 62(3): 41-43, 1934.
- iRoessler & Hasslacher Chem. Co. Inc., Fumigation of Flour Mills, 1932, 31p.
- Shepard, Grain & Feed J. Cons. 73: 511, 1934.
- iStuart & Champlain, Miller's Rev. 95(4): 32-33, 1931.
- Sutton, Nat. & Amer. Miller 62(3): 77, 1934.
- Fumigation—Mortality from**
- Williams, U.S. Pub. Health R. 49: 697-699, 1934.
- Fumigation—Museum cases**
- Tracy, J. Mammalogy 12(3): 321-322, 1931.

Fumigation—Mushrooms

iDavis & Young, J. Ec. Ent. 27: 518-525, 1934.

Fumigation—Narcissus bulbs

Latta, Wash. St. Hort. Soc. P. 28: 294-297, 1932.

Fumigation—Nursery stock

Meriwether, Cal. Agr. Mo. B. 21: 489, 1932.

Wilmot, Fla. Ent. 16: 28-30, 1932.

Fumigation—Nuts & nut meats

iJordan, Food Ind. 2: 305, 1930.

Marlatt, USDA Ent. R. f. 1930: 58-59.

Wilmot, Fla. Ent. 16: 28-30, 1932.

Fumigation—Persimmons

Geiger, Amer. Fr. Grow. Mag. 51: 11, 1931.

Fumigation—Pineapple planting material

Pineapple News 4(11/12): 156-169, '30.

Fumigation—"Protective stupefaction"

iPratt, Swain & Eldred, J. Ec. Ent. 24: 1041-1063, 1931.

Fumigation—Prunes

Pac. Rur. Press 122: 594, 1931.

Fumigation—Rice

Marlatt, USDA Ent. R. f. 1930: 57-58.

bStracener, J. Ec. Ent. 27: 769-771, '34.

Fumigation—Safeguards

Hockenyos, Extermin. Log 2(11): 9, 1934.

Fumigation—Ship

biBrown, U.S. Nav. Med. B. 31: 253-268, 1933; B. 32: 294-317, 1934.

Gatlin, United Fr. Co., Med. Dept. R. 18: 319-326, 1929.

biRidlon, U.S. Pub. Health R. 46: 1572-1578, 1623-1636, 1931.

Williams, Sci. News Letter 20: 233, '31.

iWilliams, U.S. Pub. Health R. 46: 1680-1694, 1755-1761, 1823-1836,

2048-2059, 2973-2980, 1931; R. 48: 89-90, 1933; R. 49: 192-208, 1934.

U.S. Nav. Med. B. 29: 266-267, 1931.

Fumigation—Stored grain

Back & Cotton, USDA FB 1483, rev.: 1931, 34p.

Cotton, J. Ec. Ent. 24: 576, 1931.

Horsfall, Nat. & Amer. Miller 62(3): 40-41, 1934.

Seibel Tech. Rev. 5: 108, 1931.

bSterrett & Arnott, Ent. Soc. Ont. R. 63: 52-53, 1932.

Young, USDA Off. Rec. 11(7): 37, '32.

Fumigation—Stored products

iBugbee, Compressed Air Mag. 35: 3260-3264, 1930.

bRoark, Food Ind. 3: 398-399, 1931.

iStiner, Food Ind. 6: 160-162, 1934.

Fumigation—Temperature

biCotton, J. Ec. Ent. 25: 1091-1103, '32.

biMoore, J. Ec. Ent. 27: 1044-1049, '34.

iQuayle & Rohrbaugh, J. Ec. Ent. 27: 1083-1095, 1934.

Fumigation—Tobacco

Bruner & Arango, Cuba Santiago de las Vegas C. 73: 4-6, 1931.

iCrumb & Chamberlin, J. Ec. Ent. 26: 259-262, 1933.

USDA Off. Rec. 11: 184, 1932.

Fumigation—Vacuum

Essig, Hist. of Ent.: 495-501, 1931.

Gleason, Nat. & Amer. Miller 59(7): 15, 31, 1931.

bHagan, J. Ec. Ent. 24: 1002-1012, 1931.

iMackie, Cal. Agr. Mo. B. 19: 844-845, 1930; B. 20: 299-315, 1931; B. 23: 403, 1934.

Newton, Hastings & Bosher Flor. Rev.

70(1806): 15-16, 1932.

Steinweden, J. Ec. Ent. 27: 919-923, 1934.

Williamson, Food Ind. 5(5): 166-167, 1933.

iBarrel & Box & Pack. 36(3): 16-17, '31.

Fundella cistipennis (Dyar) (Caribbean pod borer)*

Leonard & Mills, J. Ec. Ent. 24: 471, '31.

iWolcott, P.R. Dept. Agr. J. 17: 241-255, 1933.

bWolcott, P.R. Univ. J. Agr. 18: 432-434, 1934.

Fungi—Role in termite diet

Hendee, Science n.s. 80: 316, 1934.

Fungicides—Effect on insects

Flint, J. Ec. Ent. 23: 404-406, 1930.

Fungous diseases of bees

biBurnside, USDA TB 149, 1930, 42p.

Fungous diseases of insects

bBartlett & Lefebvre, J. Ec. Ent. 27: 1147-1157, 1934.

Berger, Fla. St. Hort. Soc. P. 45: 133-136, 1932.

Ehrhorn, Hawaiian Ent. Soc. P. 7: 372, 1931.

- Grimes, Kans. Bien. R. 7: 101, 1934.
- biHendee, Cal. Univ. Pub. Zool. 39: 111-133, 1933.
- Hergula, Internat. Corn Borer Invest. Sci. R. 3: 130-141, 1931.
- Hill, Yothers & Miller, Fla. Ent. 18: 1-4, 1934.
- James, Science, n.s. 75: 266, 1932.
- Larrimer, USDA Off. Rec. 11: 173, '32.
- Marlatt, USDA Ent. R. f. 1931: 87.
- Van Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 364, 1931.
- biWallengren, Internat. Corn Borer Invest. Sci. R. 3: 64-73, 1930.
- iWatson & Berger, Fla. Ext. B. 67: 68-71, 1932.
- biYothers & Mason, USDA TB 176: 34-35, 1930.
- Fungous diseases of insects—Aegerita webberi**
 Brunner & Arango, Rev. de Agr. Cuba 14(2): 82, 1932.
 iWatson & Berger, Fla. Ext. B. 67: 61-62, 1932.
- Fungous diseases of insects—Aschersonia aleyrodes**
 Berger, Cit. Ind. 13(9): 14, 1932.
 Brunner & Arango, Rev. de Agr. Cuba 14(2): 82, 1932.
 Watson & Berger, Fla. Ext. B. 67: 59-60, 1932.
- Fungous diseases of insects—Aschersonia cubensis**
 iWatson & Berger, Fla. Ext. B. 67: 37-38, 1932.
- Fungous diseases of insects—Aschersonia goldiana**
 Berger, Cit. Ind. 11(10): 30, 1930.
 Watson & Berger, Fla. Ext. B. 67: 60-61, 1932.
- Fungous diseases of insects—Aschersonia turbinata**
 Watson & Berger, Fla. Ext. B. 67: 38-39, 1932.
- Fungous diseases of insects—Aspergillus flavus**
 Barreto, Assoc. Tech. Azucar. Cuba P. 5: 134, 1931.
- Fungous diseases of insects—Beauveria bassiana**
 bBartlett & Lefebvre, J. Ec. Ent. 27: 1147-1157, 1934.
- Cartwright, USDA C. 289: 3, 1933.
- bClark, USDA TB 455: 23, 1934.
- Lefebvre, Phytopath. 21: 124-125, 1931.
- Noble, USDA C. 248: 3, 1932.
- Fungous diseases of insects—Beauveria globulifera**
 biLefebvre, Phytopath. 21: 1115-1128, 1931.
- Fungous diseases of insects—Botrytis delacroixii**
 Jaynes, USDA TB 363: 21-22, 1933.
- Fungous diseases of insects—Cephalosporium lecanii**
 Watson & Berger, Fla. Ext. B. 67: 39, 1932.
- Fungous diseases of insects—Ceratomyces pini**
 Rumbold, Ecolog. Soc. Amer. B. 13(4): 17, 1932.
- Fungous diseases of insects—Empusa**
 Bourne & Shaw, J. Ec. Ent. 27: 860-861, 1934.
 Hedrick, N.Y. (Gen.) R. 51: 40, 1932.
- Fungous diseases of insects—Empusa fresenii**
 Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(5): 31, 1931.
 Watson & Berger, Fla. Ext. B. 67: 80, 1932.
- Fungous diseases of insects—Empusa grylli**
 McDonald, N.S. Dept. Agr. R. f. 1933: 70, 1934.
- Fungous diseases of insects—Entomophthora**
 James, Science n.s. 75: 266, 1932.
- Fungous diseases of insects—Entomophthora aphidis**
 Canner 79(7): 12, 1934.
- Fungous diseases of insects—Entomophthora fumosa**
 Watson & Berger, Fla. Ext. B. 67: 42, 1932.
- Fungous diseases of insects—Entomophthora sphaerosperma**
 biSawyer, Mycologia 23: 411-432, 1931.
- Fungous diseases of insects—Entomophthorales**
 Essig & Michelbacher, Cal. B. 567: 72-73, 1933.

- Fungous diseases of insects—Fusarium aleyrodis**
Watson & Berger, Fla. Ext. B. 67: 62, 1932.
- Fungous diseases of insects—Metarhizium anisopliae**
Hergula, Internat. Corn Borer Invest. Sci. R. 3: 130-141, 1930.
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 364, 1931.
- biWallengren, Internat. Corn Borer Invest. Sci. R. 3: 64-73, 1930.**
Wolcott, Can. Field-Nat. 46: 176, 1932.
- bWolcott, Ec. Ent. of W.I. 151-153, '33.**
- Fungous diseases of insects—Myriangium duriae**
Alden, Ga. St. Bd. Ent. B. 71: 19, 1930.
iWatson & Berger, Fla. Ext. B. 67: 16, 1932.
- Fungous diseases of insects—Nectria diploa (Pink scale-fungus)**
iWatson & Berger, Fla. Ext. B. 67: 14, 1932.
- Fungous diseases of insects—Nectria coccinea**
Felt, J. Ec. Ent. 26: 510, 1933.
- Fungous diseases of insects—Nectria sp.**
biBrown, J. Ec. Ent. 27: 332-333, 1934.
- Fungous diseases of insects—Podonectria coccicola**
iWatson & Berger, Fla. Ext. B. 67: 15-16, 1932.
- Fungous diseases of insects—Sphaerostilbe aurantiicola**
iWatson & Berger, Fla. Ext. B. 67: 14-15, 1932.
- Fungous diseases of insects—Spicaria javanica**
Watson & Berger, Fla. Ext. B. 67: 47, 1932.
- Fungous diseases of insects—Verticillium cinnamomeum**
Watson & Berger, Fla. Ext. B. 67: 62, 1932.
- Fungous diseases of shade trees**
Beattie, J. Ec. Ent. 26: 621-624, 1933.
- Fungus gnats**
Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 57-59, 1930.
Ruggles, N. & S. Dak. Hort. 5: 10, 1933.
- Furniture carpet beetle, see Anthrenus vilrax.**
- Galapagosia, G. minuta**
nCurran, Cal. Acad. Sci. P. ser. 4, 21: 171-172, 1934.
- Galbimorpha muiri**
nFleutiaux, Hawaiian Ent. Soc. P. 7: 453, 1931.
- Galenara consimilis**
inHenrich, PUSNM 79(13): 1-2, 1931.
- Galerita microcostata**
nDarlington, Psyche 41: 124-125, 1934.
- Galeruca externa (Peppergrass beetle)***
iDustan, Can. Dept. Agr. Ent. B. 32: 48, 1932.
iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 34, 1934.
Twinn, Ent. Soc. Ont. R. 64: 68, 1933.
- Galerucella brevicollis**
inBlake, Bklyn. Ent. Soc. B. 29: 46-47, 1934.
- Galerucella cavicollis (Lec.) (Cherry leaf beetle)***
ibHutson, Mich. Sp. B. 244: 4-5, 1933.
- Galerucella cyclopea**
inBlake, Bklyn. Ent. Soc. B. 29: 47-48, 1934.
- Galerucella decora**
Twinn, Ent. Soc. Ont. R. 64: 77, 1933.
- Galerucella luteola, see Galerucella xanthomelaena**
- Galerucella maculipes**
inBlake, Bklyn. Ent. Soc. B. 25: 217-218, 1930.
- Galerucella orthodera 48-49, oteroi 49-51, pauperata 49.**
inBlake, Bklyn. Ent. Soc. B. 29: 1934.
- Galerucella (s. str.) spiraeophila**
nHatch & Beller, Pan-Pac. Ent. 8: 107-108, 1932.
- Galerucella vaccinii**
Phipps, Maine B. 356: 130-132, 1931.
- †Galerucella xanthomelaena (Schr.) (Elm leaf beetle)***
Beard, Amer. Boys' Bk. Bugs: 261-264, 1932.
iBritton, Conn. B. 338: 583, 1932; B. 344: 106, 1933.
iBritton, Conn. C. 84: 29-34, 1932.
Browne, Cal. Agr. Mo. B. 21: 347, 1932.
Burke, Cal. Agr. Mo. B. 21: 361, 1932.
Burtch, Cal. Agr. Mo. B. 19: 521, 1930.
Davis, Ind. Ext. B. 168: 15-16, 1930.
Essig, Hist. of Ent.: 168-172, 1931.

- Felt, Nat. Shade Tree Conf. P. 7: 66-73, 1931.
 Felt, Sci. Month 35: 59, 1932.
 Felt, J. Ec. Ent. 26: 46, 1933.
 Felt & Bromley, J. Ec. Ent. 25: 41, '32.
 Hamilton & Gemmell, J. Ec. Ent. 27: 449-451, 1934.
 Horovitz, R.I. Dept. Agr. Bur. Ent. B. 6, 1931, 4p.
 i[Iddings] Ida. B. 205: 43-44, 1934.
 Jones, J. Ec. Ent. 26: 513, 1933.
 iMcDaniel, Mich. Sp. B. 243: 6-8, 1933.
 Mackie, Cal. Agr. Mo. B. 19: 549-550, 841, 1930.
 iMackie & Haenggi, Cal. Agr. Mo. B. 22: 346-350, 1933.
 Moulton, Cal. Agr. Mo. B. 20: 755-756, 1932.
 biSoraci, N.J. Dept. Agr. C. 243: 32-34, 1934.
 Wicks, Ida. Dept. Agr. Bien. R. 7: 17-18, 1932.
 Wicks, Cal. Dept. Agr. Sp. Pub. 119: 34, 1933.
 Wicks, Cal. Agr. Mo. B. 23: 289, 1934.
- Galerucinae**
 Schaeffer, Can. Ent. 64: 236-239, 1932.
- Gall flies, see Cynipoidea**
- Gall insects**
 iAaron, Nature Mag. 18: 157-162, 1931.
 Chadwick, Flor. Rev. 70(1805): 62-63, 1932.
 iDavis, Ind. Ext. B. 168: 34-35, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.: 36-38, 1933.
 iCornell Rur. School Leaf. 25(3): 30-33, 1932.
- *Gall-making maple borer, see Xylotrechus aceris Fisher**
- Gall-worm, see Monoptiloba sp.**
- Galleria mellonella (L.) (Wax moth)***
 biDickman, J. Cell. & Comp. Physiol. 3: 223-246, 1933.
 Dyce & Martin, Ont. Dept. Agr. B. 377: 18-19, 1934.
 iEssig & Hoskins, Cal. Ext. C. 87: 104, 1934.
 Goucher, N.S. Dept. Agr. R. f. 1930: 86-87.
 Kirk, Penn. Dept. Agr. B. 499: 12, '31.
 Krebs, Cal. Agr. Mo. B. 21: 351-353, 1932.
- Paddock, J. Ec. Ent. 26: 177-181, '33.
 Parker, Kans. Ent. Comm. C. 10: 16-17, 1932.
 iRichmond, Col. St. Ent. C. 62: 25, '34.
 Swezey, Hawaiian Ent. Soc. P. 8: 362, 1934.
 biTaylor & Steinbach, Physiol. Zool. 4: 604-619, 1931.
 biTaylor et al., Physiol. Zool. 7: 593-599, 1934.
 Wilder, Hawaiian Ent. Soc. P. 8: 4, '32.
 Midwest Fruitman, 7(6/7): 6, 1934.
 USDA Off. Rec. 11: 211, 1932.
- Gallery-building clothes-moth, see Trichophaga tapetzella**
- Galleta grass gall, see Harmolita sp.**
- Gallinipper, see Psorophora ciliata**
- Galls**
 Burkett, Tex. Dept. Agr. B. 111: 207, 1932.
 iMcDaniel, Mich. Sp. B. 243: 60-68, 1933.
 Thomas, Flow. Grow. 20(8): 353, 1933.
 iWeed, Insect Ways: 167-180, 1930.
 Yunker, Ind. Acad. Sci. P. 43: 70-71, 1933.
- Galumna hawaiiensis**
 inJacot, Bernice P. Bishop Mus. B. 121: 77-80, 1934.
- Galumna spp.**
 iJacot, Bost. Soc. Nat. Hist. B. 63: 20-21, 1932.
- biJacot, J. N.Y. Ent. Soc. 42: 87-125, '34.**
- Galuminae**
 biJacot, Amer. Midland Nat. 14: 680-703, 1933.
- Gamasoidea (Parasitoidea)**
 Park, Ann. Ent. Soc. Amer. 25: 79-80, 1932.
- Gangara thyrasis**
 Cockerell, Bklyn. Ent. Soc. B. 26: 11, 1931.
- *Garden centipede, see Scutigera immaculata (Newp.)**
- *Garden flea hopper, see Halticus citri**
- Garden insects**
 iAmos, Purdue Agr. 26: 131, 142, 1932.
 iAmstein, Ark. Ext. C. 330, 1934, 4p.
 iBade, Amer. Home 4: 334, 394, 1930.
 iBade, Pop. Sci. Month. 118(6): 123-124, 1931.
 Barron, Amer. Home 10: 259, 1933.

Garden insects *Cont'd*

- Beattie, USDA FB 1673: 26, 1931.
 Bodman, Gard. Club Amer. B. ser. 4, 8: 95-100, 1930.
 Branton, Pac. Rur. Press, 127: 194, 1934.
 Briggs, Gardening in the South: 184-196, 1931.
 iBrittain, J. Agr. & Hort. 35: 186-187, 1932.
 Burson, Loudoun-Fauquier Breeders' Mag. 1(4): 21, 1930.
 Case, Flow. Grow. 18: 383-384, 1931.
 Claiborne, Man. of Gardening: 158-162, 1932.
 Cloud, House Beautiful 67: 767, 801, 1930.
 iCocks, Conn. (Storrs) Ext. B. 185, 1933, 8p.
 Compton, Ill. C. 391: 20-21, 43-46, '32.
 Coulson, J. Agr. & Hort. 33(12): 173, X, 1933.
 iCoulson & Brittain, J. Agr. & Hort. 36: 196-198, 1933; 37(12): 12-13, 1934.
 Currie, Pac. Rur. Press 123: 426, 1932.
 Davis, Purdue Univ. B. 32(7): 50-52, 1932.
 biDean, Kans. St. Hort. Soc. Bien. R. 41: 217-225, 1932.
 bDustan, Ent. Soc. Ont. R. 65: 28-36, 1934.
 Ellicott, Peter & Murphy, Gard. Club Amer. B. ser. 4, 12: 95-97, 1930.
 Fluke, Wis. Hort. 23: 277, 1933.
 Ford, Dak. Farm. 52: 273-277, 1932.
 Fromme, W.Va. B. 354: 37-38, 1932.
 Garcia, New Mex. R. 44: 43, 1934.
 iGibson, Can. Dept. Agr. B. n.s. rev. 99: 61, 1934.
 Gilbert & Popenoe, USDA FB 1371: rev. 1930, 46p.
 Gilliat, Ent. Soc. Ont. R. 62: 16-17, 1932.
 Gorham, Ent. Soc. Ont. R. 65: 36-40, 1934.
 Gorham et al, Ent. Soc. Ont. R. 62: 17-18, 1932.
 Gould, Minn. Hort. 60: 136-138, 1932.
 iGregory, Rur. N.Y. 89: 348, 1930.
 iHamilton, Flow. Grow. 18: 41, 1931.
 iHeaton, Purdue Agr. 25: 181, 193-194, 1931.
 Hepler, N.H. Ext. C. 151: 5-7, 1933.
 Hobart, N. & S.Dak. Hort. 3: 174-176, 184, 1931.
 Holmes, Home Acres 19(6): 8, 1931.
 Hopkins, La. Ext. C. 141: 16-17, 1930.
 Huntington, Gard. Club. Amer. B. ser. 4, 18: 116-119, 1931; ser. 4, 24: 114-117, 1932; ser. 5, 3: 109-110, 1933; ser. 5, 5: 100-103, 1933; ser. 5, 8: 105-108, 1934.
 Jones, Missouri Ext. C. 304, 1933, 2p.
 King & Arnason, Ent. Soc. Ont. R. 62: 28, 1932.
 iLaHue, Purdue Agr. 28: 62, 67, 1934.
 iLaHue, Purdue Agr. 29: 25, 29, 1934.
 Lawson, Kans. St. Hort. Soc. Bien. R. 40: 203-205, 1930.
 iLeach, Minn. Hort. 59: 110-111, 1931.
 McHatton, Country Gentl. 102(4): 41, 1932.
 Mann, N.Y. (C.) R. 43, Pt. 2: 43, 1931.
 Mitchener, Ent. Soc. Ont. R. 62: 25, '32.
 Moore & Combs, Wis. Ext. C. 254: 35-37, 1933.
 Mote, Oreg. St. Hort. Soc. R. 24: 88-94, 1932.
 iMunro & Riddle, N.Dak. C. 42, rev.: 1933, 63p.
 Murphy, Gard. Club. Amer. B. ser. 4, 10: 76, 1930.
 Murphy, Better Homes & Gard. 9(10): 34, 88, 1931.
 Nissley, Rur. N.Y. 89: 606-607, 1930.
 Peairs, W.Va. B. 244: 37, 1931.
 Perkins, Rur. N.Y. 91: 468, 1932.
 Pettit, Mich. Ext. B. 117, 1931, 20p.
 iPettit, Mich. B. 183: rev. Apr., 1933, 79p.
 Quint, Amer. Home, 4: 392, 394, 1930.
 iReed, Flow. Grow. 21: 251, 1934.
 Riley, Mid. Pac. Mag. 42: 335-337, '31.
 Robertson, Dak. Farm. 51: 403, 411, 1931.
 Ruffin, South. Cult. 90(6): 13, 1932.
 iSanderson, Ins. Pests Farm, ed. 3: 71-103, 1931.
 iSchmidt, Nature Study & Agr. rev.: 210-220, 1933.
 Schurman, Farmers' Advoc. 65: 1031, 1930.
 iSheaffer, Ind. Dept. Conserv. Pub. 103: 37-50, 1930.

- Sherman, S.C. Wkly. News Notes. 18: 42, Apr. 1930.
 Sherwood, W.Va. Ext. C. 294: 7-15, 1930.
 Storgaard, Pac. Rur. Press 121: 494, 1931.
 Stoutamire, Fla. Dept. Agr. B. n.s. 52: 59, 1931.
 Strong, USDA Ent. R. f. 1934: 10-12.
 iTabor, Woman's Home Compan. 57(5): 42, 44, 1930.
 Thomas, Flow. Grow. 20: 352-353, '33.
 Twinn, Ent. Soc. Ont. R. 64: 64-69, 1933; R. 65: 113-118, 1934.
 Wallace, Ind. YB f. 1930: 482-483.
 iWare, Good Housekeeping, 90(6): 58, 228-229, 1930.
 iWatson, Fla. B. 232, 1931, 112p.
 Weir, Can. Min. Agr. R. f. 1930/1931: 124-126; R. f. 1931/1932: 166-168; R. f. 1932/1933: 47-48; R. f. 1933/1934: 54-56.
 Wilcomb, Cal. Cult. 79: 200, 1932; 80: 261, 271, 1933.
 iWright, Farm & Ranch 50(2): 3, 12, 1931.
 Garden nematode, *see* *Heterodera marioni*
 Garden slug, *see* *Agriolimax* spp.
 *Garden springtail, *see* *Bourletiella hortensis* (Fitch)
 Garden symphlid, *see* *Scutigerella immaculata*
 *Garden webworm, *see* *Loxostege similalis*
Gargaphia bimaculata
 Fenton, Can. Ent. 66: 199, 1934.
Gargaphia concursa
 nDrake, Bklyn. Ent. Soc. B. 25: 25-26, 1930.
Gargaphia decoris
 nDrake, Ann. Ent. Soc. Amer. 24: 514, 1931.
Gargaphia dissortis
 nDrake, Amer. Mus. Nov. 398: 3, 1930.
Gargaphia opima
 nDrake, Ann. Ent. Soc. Amer. 24: 513-514, 1931.
Gargaphia solani Heid. (Eggplant lace-bug)*
 Burdette, N.J. St. Hort. Soc. P. f. 1930: 161, 1931.
 Fenton, Can. Ent. 66: 199, 1934.
Gargaphia subpilosa
 Fenton, Can. Ent. 66: 199, 1934.
Gargaphia tiliae
 Felt, J. Ec. Ent. 26: 49, 1933.
Gargaphia torresi
 Fenton, Can. Ent. 66: 199, 1934.
Gargara discrepans
 nGoding, Amer. Mus. Nov. 421: 24, '30.
Gasteracanthinae
 Newport, Univ. Okla. Biol. Surv. Pub. 4: 43, 1932.
Gasterophilus, *see* *Gastrophilus*
Gastrallus laticollis
 Hawaiian Ent. Soc. P. 8: 238, 1933.
Gastrodes conicola
 nUsinger, Pan-Pac. Ent. 9: 127-128, '33.
Gastropacha quercifolia
 bClausen, USDA C. 168: 19, 1931.
Gastrophilus equi, *see* *Gastrophilus intestinalis*
 ‡**Gastrophilus haemorrhoidalis** (L.) (Nose botfly)*
 iBliss, Iowa Ext. B. 167: 1930, 4p.
 iCameron, Can. Dept. Agr. B. 152: 12, 1931.
 iCameron, J. Agr. & Hort. 38(6): 16, '34.
 i[Hayes], Vet. Med. 26: 190-191, 1931.
 Schwartz et al, USDA C. 148 rev. :29-30, 1933.
 iStevenson, Ont. Dept. Agr. B. 378: 7-9, 1934.
 iWebb, Loudoun-Fauquier Mag. 3(2): 25-26, 1932.
Gastrophilus intestinalis Deg. (Horse botfly)*
 iBishopp & Dove, USDA FB 1503, rev. 1931, 14p.
 Caler, J. Kans. Ent. Soc. 4: 94, 1931.
 iCameron, Can. Dept. Agr. B. 152: 12, 1931.
 iCameron, J. Agr. & Hort. 38(6): 16, '34.
 Doane, Common pests: 53-54, 1931.
 Faust, Sci. Month. 33: 231, 1931.
 Heine, Capper's Farm. 41(5): 28, 1930.
 Knipling, J. Parasit. 20: 196-197, 1934.
 Marlatt, USDA Ent. R. f. 1932: 31.
 Mayo, La Hacienda 26: 460, 1931.
 Mohler, USDA BAI R. f. 1932: 54; f. 1933: 43.
 iMumford, Ill. R. 46: 105-107, 162-163, 1933.

Gastrophilus intestinalis Deg. Cont'd

- iSanderson, Ins. Pests Farm, ed. 3: 514-517, 1931.
 iSchwartz, Imes & Wright, USDA C. 148 rev.: 29-31, 1933.
 iStevenson, Ont. Dept. Agr. B. 378: 5-6, 1934.
 iWebb, Loudoun-Fauquier Mag. 3(2): 25-26, 1932.
 Wehr, J. Parasit. 19: 252, 1933.
 Wehr, North Amer. Vet. 14(10): 35-41, 1933.
 bWright et al., J. Agr. Res. 43: 287-302, 1931.
- Gastrophilus nasalis (L.) (Throat botfly)***
 iBishopp & Dove, USDA FB 1503, rev. 1931, 14p.
 iCameron, Can. Dept. Agr. B. 152: 12, 1931.
 Mex. Agr. & Fomento. Principales Plagas: 246, 1930.
 Schwartz et al, USDA C. 148 rev.: 29, 1933.
 iStevenson, Ont. Dept. Agr. B. 378: 6-7, 1934.
 iWebb, Loudoun-Fauquier Mag. 3(2): 25-26, 1932.
 Wells, J. Ec. Ent. 24: 1311, 1931.
- Gastrophilus spp. (Botflies)**
 biBozicevich & Underwood, Vet. Med. 27: 360-364, 1932.
 Cameron, Maritime Farm. 38(22): 5, 1933.
 Rawson, Sci. Month. 39: 501-502, '34.
 Smith, J. Kans. Ent. Soc. 5: 73, 1932.
 Twinn, Ent. Soc. Ont. R. 65: 128, 1934.
 bWehr, Cornell Vet. 23: 254-271, 1933.
 bWright, Vet. Med. 27: 4-6, 1932.
 Wright, J. Amer. Vet. Med. Assoc. 84: 21, 1934.
- Gastrothrips proteus**
 nHood, J. N.Y. Ent. Soc. 41: 417-419, 1933.
- Gaurotes cyanipennis**
 Knull, Ent. News 45: 209, 1934.
- Gehringia, G. olympica**
 binDarlington, Pan-Pac. Ent. 9: 110-114, 1933.
- Gelastocoris oculatus (F.) (Toadbug)***
 biPayne, J. Morph. 53: 529-538, 1932.
- Gelastogonia gibbera**
 nGoding, Amer. Mus. Nov. 421: 20, '30.

Gelechia abactella

- inClarke, Can. Ent. 64: 68-69, 1932.
- Gelechia acrina**
 inKeifer, Cal. Agr. Mo. B. 22: 359-360, 1933.
- Gelechia albifemorella**
 inClarke, Can. Ent. 64: 65, 1932.
- Gelechia arbutina**
 nKeifer, Pan-Pac. Ent. 7: 29-31, 1930.
- Gelechia aulaea**
 inClarke, Can. Ent. 64: 68, 1932.
- Gelechia braumella**
 Clarke, Can. Ent. 66: 174, 1934.
 inKeifer, Pan-Pac. Ent. 8: 67-70, 1931.
- Gelechia caudatae**
 inClarke, Can. Ent. 66: 175, 1934.
- Gelechia demissae**
 inKeifer, Pan-Pac. Ent. 8: 70-73, 1931.
- Gelechia desiliens**
 Armitage, J. Ec. Ent. 24: 1111, 1931.
 iKeifer, Cal. Agr. Mo. B. 20: 623-624, 1931.
- Gelechia lepidotae**
 inClarke, Can. Ent. 66: 177-178, 1934.
- Gelechia manzanitae**
 inKeifer, Pan-Pac. Ent. 7: 31-34, 1930.
- Gelechia ornatifimbriella**
 iClarke, Can. Ent. 64: 67, 1932.
 Clarke, Can. Ent. 66: 175-177, 1934.
- Gelechia panella**
 Keifer, Pan-Pac. Ent. 7: 34, 1930.
- Gelechia seculaela**
 inClarke, Can. Ent. 64: 67-68, 1932.
- Gelechia sistrella**
 Keifer, Pan-Pac. Ent. 8: 73, 1931.
- Gelechia spp.—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 127, 1930.
- Gelechia trichostola**
 iKeifer, Cal. Agr. Mo. B. 20: 624-625, 1931.
- Gelechia versutella**
 Keifer, Pan-Pac. Ent. 8: 54, 1931.
- Gelechiidae**
 iBusck, P. Ent. Soc. Wash. 36: 82-85, 1934.
 inClarke, Can. Ent. 66: 172-178, 1934.
- Genophantis leahi**
 Swezey, Hawaiian Ent. Soc. P. 8: 2, '32.
- Geocnethus cubensis, reversus**
 nBarber & Bruner, P.R. Dept. Agr. J. 16: 236-238, 1932.

- Geocoris decoratus**—Parasite
biKnowlton, Utah B. 234: 43-45, 1932.
- Geocoris punctipes**
Watson, Fla. B. 232: 71, 1931.
- Geocoris spp.**
Lockwood, Cal. Agr. Mo. B. 22: 280, 1933.
- Geoderces**
Keifer, Ent. Amer. n.s. 13: 69-71, 1932.
- Geoderces melanothrix**
Jones & Hanson, Wash. Ext. B. 180: 5, 1933.
- Geodimmockius, G. explanatus**
nChapin, Wash. Acad. Sci. J. 20: 489-490, 1930.
- Geocica radiculicola**
McDaniel, Mich. Sp. B. 214: 55, 1931.
- Geometridae**
Cassino, Lepidopterist 5: 19-24, 1931.
- Geopinus fluviaticus**
Bryson, J. Kans. Ent. Soc. 4: 20-22, 1931.
- Georgiaphis ulmi**
iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 357-358, 1931.
- Georyssidae**
Hinton, Pan-Pac. Ent. 9: 160-161, '33.
- Geotomus murinus**
nVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21(4): 26, 1933.
- Geotomus pygmaeus**
Illingworth, Hawaiian Ent. Soc. P. 7: 378, 1931.
- Geotrupinae**
biMohr, Ill. St. Acad. Sci. Trans. 22: 263-284, 1930.
- Geranium insects**
iCompton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 62-63, 1930.
Huntington, Gard. Club. Amer. B. ser. 5, 10: 115, 1934.
- Geranomyia**—Key
Alexander, P.R. Dept. Agr. J. 16: 361, 1932.
- Geranomyia canadensis**
Johannsen, N.Y. (C) M. 164: 16, 1934.
- Germalus spp.**
inVan Duzee, Bernice P. Bishop Mus. B. 98: 180-185, 1932.
- *German cockroach, see Blattella germanica (L.)**
- German wasp, see Vespa germanica.**
- Geron spp.**
inPainter, Trans. Amer. Ent. Soc. 58: 139-167, 1932.
- Gerridae**
Drake & Harris, Carnegie Mus. Ann. 19: 235-239, 1930.
Drake & Harris, Psyche 39: 107-112, 1932.
- iDrake & Harris, Carnegie Mus. Ann. 23: 179-240, 1934.**
- Gerris beieri**
nDrake & Harris, Carnegie Mus. Ann. 23: 200, 1934.
- Gerris carmelus**
nDrake & Harris, Psyche 39: 108, 1932.
- Gerris dissortis**
nDrake & Harris, Bklyn. Ent. Soc. B. 25: 145-146, 1930.
- Gerris kahli, summatis**
nDrake & Harris, Carnegie Mus. Ann. 23: 199-202, 1934.
- Gesomymex spp.**
iWheeler, Psyche 37: 35-40, 1930.
- Ghilianella andersoni, brevicornis**
inHaviland-Brindley, Zoologica 7: 139, 1931.
- Giant apple root borer, see Prionus californicus.**
- *Giant hornet, see Vespa crabro L.**
- Giant sand wasp, see Sphecius speciosus.**
- Giant skipper, see Epargyreus tityrus.**
- *Giant stag beetle, see Lucanus elaphus F.**
- Giant termite, see Mastotermes darwiniensis**
- *Giant water bug, see Lethocerus americanus (Leidy)**
- Gillettea cooleyi**
iBritton, Conn. B. 344: 162, 1933.
bGambrell, Nat. Shade Tree Conf. P. 8: 89-90, 1932.
Hutson, Mich. R. 47: 215-216, 1934.
- Gillettella atropuncta**
iOsborn, Ann. Ent. Soc. Amer. 23: 690-691, 1930.
- Gillettella labiata**
Osborn, Ann. Ent. Soc. Am. 690, 1930.
- Gipsy moth, see Porthetria di**
- Gitonides perspicax**
Swezey, Hawaiian Ent. S. 1932.

- Glade ant, *see* *Myrmecina graminicola*,
subsp. *americana*
- Gladiolus insects**
Antisdale, Glad. Rev. 9: 240, 1932.
Collins, Can. Glad. Soc. B. 9: 65-66,
1932.
Delatush, Flor. Exch. 80(17): 24, 1932.
iDustan, Can. Glad. Soc. Quar. Oct.
1934: 13-17.
iDustan & Bryce, Can. Glad. Soc. B. 9:
61-64, 1932.
Garlock, Flow. Grow. 18: 524, 1931.
iHuff, Glad. Rev. 9: 317-320, 1932.
iMcDaniel, Mich. C. B. 149: 13-20, '34.
Pack, N.J. Gard. 5: 289, 1932.
Palmer, Can. Glad. Soc. Quar. Jan.
1934: 8-10.
Prouten, Flow. Grow. 18: 478-479,
1931.
iRoss, Can. Glad. Soc. B. 8: 112-113,
1931.
Smith, J. Ec. Ent. 25: 1110, 1932.
Tate, Iowa St. Hort. Soc. Trans. 68:
171-175, 1933.
iTate, Iowa St. Hort. Soc. Trans. 69:
239-244, 1934.
Tate, South. Flor. & Nurserym. 38(9):
9, 1934.
iVogan, Can. Glad. Soc. B. 9: 51-54,
1932.
Weigel, W. Wash. Hort. Assoc. P. 25:
15-18, 1934.
Flor. Rev. 70(1806): 27, 1932.
- **Gladiolus thrips*, *see* *Taeniothrips simplex* Morison.
- Gladionura spp.**
in Osborn, Ann. Ent. Soc. Amer. 23: 706-
712, 1930.
- Glaenocorixa quadrata**
in Walley, Can. Ent. 62: 80-81, 1930.
- **Glassy cutworm*, *see* *Sidemia devastator*
- Glaucacna, G. iridea**
in Forbes, N.Y. Acad. Sci. Sci. Surv. P.R.
12(1 sup.) 369-370, 1931.
nForbes, P.R. Dept. Agr. J. 15: 369-
370, 1931.
- Glenurus cervical**
Smith, Ann. Ent. Soc. Amer. 24: 814-
815, 1931.
- Glipa aurata** 145, *bakeri* 146, *isolata* 145-
146
in Ray, Coleop. Contrib. 1: 1930.
- Glischrochilus** 255-262, *confluentus* 262,
fasciatus 258, *lecontei* 262, *moratus*
261-262
nBrown, Can. Ent. 64: 1932.
- Glischrochilus quadrisignatus**
iBrown, Can. Ent. 64: 258-259, 1932.
iSiepmann, Bklyn. Ent. Soc. B. 26: 24-
35, 1931.
- Glischrochilus sanguinolentus** 257-259,
siepmanni 259-261, *vittatus* 261
Brown, Can. Ent. 64: 1932.
- Glossina morsitans**
bMatheson, Med. Ent.: 336-342, 1932.
Rawson, Sci. Month. 39: 499-500, '34.
iRiley & Johannsen, Med. Ent.: 360-
361, 1932.
- Glossina palpalis**
Cecil, Text-book of Med. ed. 3: 510,
1934.
biKellersberger, Amer. J. Trop. Med. 13:
211-236, 1933.
biMatheson, Med. Ent.: 335-336, 1932.
Ormsby, Pract. Treat. Dis. Skin. ed. 4:
1076, 1934.
iSnodgrass, Smithsonian. Sci. Ser. 5: 348-
350, 1930.
- Glossina spp.**
biMatheson, Med. Ent.: 334-342, 1932.
bPhillips, Ecology 11: 713-733, 1930.
Riley & Johannsen, Med. Ent.: 357-
369, 1932.
- Glossonotus crataegi**
bHutson, J. Ec. Ent. 27: 365-367, 1934.
- Glossonotus univittatus**
in Ball, Ent. Amer. n.s. 12: 14, 1931.
- Glossosoma americanum**
iLing, Can. Ent. 66: 18-21, 1934.
- Glossosoma anale**
in Martynov, PUSNM 79(25): 2-3, 1931.
- Glossosoma caudatum**
in Martynov, PUSNM 79(25): 3-4, 1931.
- Gloveria arizonensis**
iComstock, So. Cal. Acad. Sci. B. 29:
26-27, 1930.
- **Glover's scale*, *see* *Lepidosaphes gloverii*
- Glyciphagus domesticus**
iSchwartz & Shook, USDA FB 1568,
rev.: 8, 1931.
- Glycobius speciosus** (Say) (Sugar maple
borer)*
Britton, Conn. B. 344: 128, 1933.
iMcDaniel, Mich. Sp. B. 238: 14-15, '33.

- iPeirson, Field Book of Destruct. For.
Ins. ed. 2: 14, 1932.
- Glyphodes nitidalis**
biMex. Agr. & Fomento. Principales
Plagas: 183-184, 1930.
- Glypta caulicola**
Cushman, PUSNM 82(14): 9-10, 1933.
- Glypta exartemae, infumata**
nWalley, Can. Ent. 66: 235-237, 1934.
- Glypta rufiscutellaris**
biCrawford, N.Y. (Gen.) TB 217, 1933,
29p.
Daniel et al., N.Y. (Gen.) B. 635: 16,
1934.
Gardner, Mich. Bien. R. 1933-1934: 29.
biHaeussler, J. Agr. Res. 41: 365-377,
1930.
Hutson, Mich. St. Hort. Soc. R. 62:
100-101, 1933.
biMcConnell, Md. B. 364: 440-456, 1934.
Merritt, J. Ec. Ent. 26: 788-792, 1933.
Merritt, Mich. Quar. B. 15: 224-225,
1933.
Merritt, Midwest Fruitman, 7(2/3): 8,
1933.
Pepper & Driggers, Ann. Ent. Soc.
Amer. 27: 593-598, 1934.
Stearns & Neiswander, Ohio B. 457: 17,
1930.
Steenburgh, Ent. Soc. Ont. R. 65: 69-
70, 1934.
Yetter, Missouri St. Hort. Soc. P. f.
1930-1932: 95.
- Glyptocolastes bruchivorus**
Swezey, Hawaiian Ent. Soc. P. 7: 365-
366, 1931.
- Glyptolenus simplicicollis**
nDarlington, Psyche 41: 97, 1934.
- Glyptoscelimorpha marmorata**
Davis, Bklyn. Ent. Soc. B. 26: 187, '31.
- Glyptoscelimorpha viridis**
nChamberlin, Pan-Pac. Ent. 8: 47-48,
1931.
- Gnaphosidae**
iChamberlin, Amer. Mus. Nov. 631:
1933, 8p.
- Gnathamitermes**
nLight, Cal. Univ. Pub. Ent. 5: 390-394,
1932.
- Gnathium francilloni**
Bridwell, P. Ent. Soc. Wash. 34: 11,
1932.
- Gnathobleda litigiosa**
Barber, Ent. Amer. n.s. 10: 179-180,
1930.
- Gnathobleda maculosa**
inHaviland-Brindley, Zoologica 7: 140,
1931.
- Gnathocerus cornutus**
Back & Cotton, USDA FB 1260: 34-
35, 1930.
- Gnathotrichoides**
bnBlackman, Wash. Acad. Sci. J. 21: 267,
1931.
- Gnathotrichus**
binBlackman, Wash. Acad. Sci. J. 21: 264-
276, 1931.
- Gnathotrichus aciculatus 272-274, alni**
271-272
binBlackman, Wash. Acad. Sci. J. 21: '31.
- Gnathotrichus denticulatus**
Blackman, N.Y. St. Col. For. TB 36:
35-36, 1931.
- bin Blackman, Wash. Acad. Sci. J. 21: 270,
1931.
- Gnathotrichus materiarius**
biSchedl, Smithson. Misc. Coll. 82(10):
6-11, 1931.
- Gnathotrichus retusus**
biSchedl, Smithson. Misc. Coll. 82(10):
11-13, 1931.
- Gnathotrichus spp.—Morphology**
bSchedl, Smithson. Misc. Coll. 82(10),
1931, 88p.
- Gnathotrichus sulcatus**
iHopping & Jenkins, Can. Dept. Inter.
For. Serv. C. 38, 1933, 14p.
biSchedl, Smithson. Misc. Coll. 82(10)
13-15, 1931.
- Gnophomyia acricula, vilis**
nAlexander, Ann. Ent. Soc. Amer. 24:
637-639, 1931.
- Gnorimella maculosa**
Frost, Bklyn. Ent. Soc. B. 27: 188, '32.
- Gnorimoschema ericameriae**
inKeifer, Cal. Agr. Mo. B. 22: 361-362,
1933.
- Gnorimoschema gallaesolidaginis**
iDavis, Bklyn. Ent. Soc. B. 26: 120-122,
1931.
- Davis, J. N.Y. Ent. Soc. 39: 267, 1931.
- Gnorimoschema glochinella (Zell.) (Egg-
plant leaf miner)***
bThomas, J. Ec. Ent. 26: 137-143, 1933.

- Gnorimoschema lutescella*
in Clarke, Can. Ent. 66: 172-173, 1934.
- Gnorimoschema lycopersicella* (Busck)
(Tomato pinworm)*
b Campbell & Elmore, Cal. Agr. Mo. B. 20: 458-460, 1931.
Cory, Md. Agr. Soc. R. 18: 219-230, 1934.
Hyslop, J. Ec. Ent. 27: 559-560, 1934.
i Keifer, Cal. Agr. Mo. B. 20: 625-626, 1931.
Moulton, Cal. Agr. Mo. B. 20: 751, '32.
[Sullivan], Seed World 33(10): 6, 1933.
Thomas, J. Ec. Ent. 25: 137-138, 1932.
Thomas, Penn. St. Col. B. 279: 16, '32.
b Thomas, J. Ec. Ent. 26: 137-143, 1933.
Watson & Thompson, Fla. Ent. 16: 14, 1932.
- Gnorimoschema lycopersicella*—Parasites
Russell, Bermuda Dept. Agr. R. f. 1932: 26, 1933.
- Gnorimoschema miscitella*
in Clarke, Can. Ent. 64: 65-67, 1932.
- Gnorimoschema octomaculella*
Clarke, Can. Ent. 66: 173-174, 1934.
- Gnorimoschema operculella* (Zell.) (Potato tuber worm)*
Berly, S.C. C. 43: 15, 1930.
b Campbell & Elmore, Cal. Agr. Mo. B. 20: 459-460, 1931.
Del Curto, Tex. Comm. Agr. R. 24: 55-56, 1933.
Essig, Hist. of Ent.: 255-257, 1931.
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 125-126, 1930.
Hanson, W. Wash. Hort. Assoc. P. 25: 23-24, 1934.
Haseman, Missouri Ext. C. 257: 4, '30.
Hope, Cal. Dept. Agr. Sp. Pub. 115: 160, 1932.
i Knowlton, Utah Leaf. 49, 1934. 4p.
Langford, J. Ec. Ent. 26: 135-137, '33.
Langford & Cory, J. Ec. Ent. 25: 625-634, 1932.
Mackie, Cal. Dept. Agr. Sp. Pub. 115: 144-145, 1932.
Mackie, J. Ec. Ent. 25: 457-461, 1932.
Mackie, Cal. Agr. Mo. B. 23: 250-252, 1934.
Pettit, Mich. Quar. B. 15: 70-72, 1932.
Russell, Bermuda Dept. Agr. R. f. 1932: 27, 1933; R. f. 1933: 30-31, '34.
Ryan, Cal. Agr. Mo. B. 20: 354, 1931.
Sanders & Langford, Peninsula Hort. Soc. Trans. 44: 170-171, 1930.
i Sanderson, Ins. Pests Farm, ed. 3: 211-213, 1931.
Symons, Md. Ext. R. 18: 65, 1933.
Symons, Md. Univ. & St. Bd. Agr. Bien. R. f. 1930/1932: 100, 1933.
Weiss, N.J. St. Dept. Agr. R. 16: 154, 1931.
- Gnorimoschema operculella*—Fumigation
Mackie, Cal. Dept. Agr. Sp. Pub. 119: 16, 1933.
- Gnorimoschema operculella*—Iowa
Tate, J. Ec. Ent. 26: 1173, 1933.
- Gnorimoschema operculella*—Quarantine
Gehlhar, Oreg. Dept. Agr. B. 17: 12-13, 1933.
- Gnorimoschema operculella*—Utah
Hutchings, Cal. Agr. Mo. B. 23: 293, 1934.
- Gnorimoschema operculella*—Winter survival
Langford, J. Ec. Ent. 27: 210-213, '34.
- Gnorimoschema operculella* and plant diseases
Calderon, Rev. de Agr. Cuba 14(4): 104, 1932.
- Gnorimoschema tuberosella*
Barrett, J. Ec. Ent. 25: 134, 1932.
Busck, P. Ent. Soc. Wash. 33: 59-60, 1931.
- Goat lice
Babcock, Tex. R. 47: 226-227, 1934.
Babcock-Boughton, Tex. R. 45: 199-200, 1932.
Marlatt, USDA Ent. R. f. 1930: 64-65.
- Goat scab mite, *see* *Chorioptes caprae*
- Gobaishia ulmi-fusus*
i Hottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 359, 1931.
- Goera calcarata*
Carpenter, Psyche 40: 37, 1933.
- Goera digitata*
in Martynov, PUSNM 79: 18-19, 1931.
- Goera tagalica*
in Banks, Psyche, 38: 66, 1931.
- Goerinella minor*
in Banks, Psyche 38: 67, 1931.
- Gold-banded skipper, *see* *Rhabdoides cellus*
- Golden-eyed lace wing fly, *see* *Chrysopa* sp.

- *Golden spider beetle, *see* *Niptus hololeucus* Fald.
- Goldenrod gall-fly, *see* *Eurosta solidaginis*
- Golf greens—Insects
- iFleming, Nat. Greenkeep. 6(6): 5-7, 1932.
- Hutson, J. Ec. Ent. 26: 1171, 1933.
- bLeach, N.J. C. 163, 1929, 13p.
- Monteith & Dahl, U.S. Golf Assoc. Green Sec. B. 12: 184-186, 1932.
- bNorth & Thompson, J. Ec. Ent. 26: 1117-1125, 1933.
- iPettit, Mich. Ext. B. 125, 1932, 11p.
- Welton, Golfdom 7(10): 33, 1933.
- Goliathus giganteus* (Brown goliath beetle)
- iPop. Sci. Month. 121(1): 56, 1932.
- Gomphomacromia mexicana*
- nNeedham, Ent. News 44: 88-90, 1933.
- Gomphus militaris*
- Bird, Sci. Month. 36: 377, 1933.
- iBird, Ent. News 45: 44-46, 1934.
- Gomphus pallidus*
- biByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 250-252, 1930.
- Gomphus plagiatus*
- iAaron, Nature Mag. 22: 111-112, 1933.
- Gomphus quadricolor*
- iWalker, Can. Ent. 64: 270-273, 1932.
- Gonanamastax*
- nTownsend, J. N.Y. Ent. Soc. 40: 472-473, 1932.
- Gonatium crassipalpus*
- inByrant, B. Mus. Comp. Zool. 74: 173-174, 1933.
- Gonatocerus capitatus*
- nGahan, Ann. Ent. Soc. Amer. 25: 754-755, 1932.
- Gonatocerus cubensis, flaviventris, quadrivittatus*
- inDozier, P.R. Dept. Agr. J. 16: 81-83, 1932.
- Gonatocerus sp.*
- nYothers, USDA TB 402: 36, 1934.
- Gonatopus contortulus*
- Severin, Hilgardia 7: 341, 1933.
- Gonia crassicornis*
- bWilson, Fla. Ent. 17(1): 13, 1933.
- Gonia texensis*
- iBruner, Rev. de Agr. Cuba 14(22): 96, 1934.
- Goniocotes abdominalis*
- Calder, J. Kans. Ent. Soc. 4: 78, 1931.
- Goniocotes gigas* Tasch. (Large chicken louse)*
- Stoddard, Bobwhite Quail: 316, 1931.
- Pop. Mech. 57: 834, 1932.
- Goniodes stylifer*
- Bishopp & Wood, USDA FB 801, rev.: 13, 1931.
- Buckley, USDA FB 1652: 54, 1931.
- Buckley & Bunyea, USDA FB 1652 rev.: 59, 1933.
- Goniops chrysocoma*
- iSchwardt, Nature Mag. 22: 215, 1933.
- bSchwardt, J. Kans. Ent. Soc. 7: 73-79, 1934.
- Stone, Ann. Ent. Soc. Amer. 23: 293, 1930.
- Goniurus dorantes*
- Bell, Amer. Mus. Nov. 555: 11, 1932.
- Goniurus erycina*
- iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 17-18, 1934.
- Goniurus eurycles*
- Bell, Amer. Mus. Nov. 555: 3, 11, 1932.
- Goniurus proteus* (L.) (Bean leaf roller)*
- iComstock, So. Cal. Acad. Sci. B. 31: 18, 1932.
- Tissot, Fla. Grow. 39(11): 25, 1931.
- Fla. Grow. 38(12): 25, 1930.
- Goniurus reductus*
- iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 17, 1934.
- Goniurus simplicius*
- Bell, Amer. Mus. Nov. 555: 11, 1932.
- Gonocephalum seriatum*
- biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 177-180, '31.
- Gonolabina spectabilis*
- bRehn, Trans. Amer. Ent. Soc. 59: 162-163, 1933.
- Gonomyia spp.*
- inAlexander, P.R. Dept. Agr. J. 16: 372-375, 1932.
- nAlexander, Harv. Univ. Inst. Biol. Contrib. 5: 1016-1017, 1930.
- nAlexander, J. N.Y. Ent. Soc. 38: 117-119, 1930; 39: 119-122, 1931.
- nAlexander, Ann. Ent. Soc. Amer. 24: 634-636, 1931.
- inAlexander, Bernice P. Bishop Mus. B. 98: 88-92, 1932.
- inRogers, Univ. Okla. Biol. Surv. Pub. 3: 333-335, 1931.

- Gonotropis gibbosus*
iPierce, PUSNM 77(17): 15-16, 1930.
- *Gooseberry fruitworm, *see* *Zophodia grossulariae* (Riley)
- Gooseberry insects
Jardine, Oreg. Bien. R. f. 1928-1930: 89.
iQuaintance, USDA FB 1398 rev.: 11-17, 1934.
Quaintance & Siegler, USDA FB 1666: 89-90, 1931.
- Gortyna micacea*, *see* *Hydroecia micacea*
- Gorytes similicolor*
nDow, Bklyn. Ent. Soc. B. 28: 218-219, 1933.
- Gossyparia spuria* (Mod.) (European elm scale)*
Ballard, Md. Ext. Serv. News 16(4): 2, 1931.
Chambers & Thompson, Wis. Dept. Agr. B. 123: 35-36, 1931; B. 145: 44-45, 1933.
Cleveland, J. Ec. Ent. 24: 349-355, '31.
iDrake & Guthrie, Iowa Dept. Agr. YB 31: 27-28, 1931.
Essig, Hist. of Ent.: 126, 1931.
iGlenn, Ill. Dept. Agr. R. 13: 58-60, '30.
Glenn, Ill. Dept. Agr. R. 14: 77, 1931.
Hedrick, N.Y. (Gen.) R. 51: 61, 1932.
Ladd, N.Y. (Gen.) R. 52: 64, 1933.
iLockwood, Cal. Agr. Mo. B. 18: 768, 1929.
Mackie, Cal. Agr. Mo. B. 19: 548-549, 1930.
iMcDaniel, Mich. C. B. 133: 11-12, '30.
Sheaffer, Ind. Dept. Conserv. Div. Ent. Pub. 103: 16, 1930.
biSoraci, N.J. Dept. Agr. C. 243: 21-22, 1934.
Wallace, Ind. Dept. Conserv. R. 13: 50, 1931.
Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 24, 1932.
Yapp, Kans. Ent. Comm. Bien. R. 14: 11, 1934.
J. Ec. Ent. 27: 729, 1934.
- Gossyparia ulmi*, *see* *Gossyparia spuria*
- Gracilaria cuculipennella* Hbn. (Privet leaf miner)*
Gibson, Can. Dept. Agr. B. n.s. 99 rev.: 24, 1934.
- Gracilaria ribesella*
inClarke, Can. Ent. 65: 92-93, 1933.
- Gracilaria syringella* F. (Lilac leaf miner)*
Gibson, Can. Dept. Agr. B. n.s. 99 rev.: 24, 1934.
- Gracilaria vacciniella*
Phipps, Maine B. 356: 136-137, 1930.
- Graeffea crouanii*
Mumford, Hawaiian Ent. Soc. P. 8: 225, 1933.
- Graeperia altera*
iComstock & Dammers, So. Cal. Acad. Sci. B. 32: 82-83, 1933.
- Graeperia indubitans*
Lemmer, Bklyn. Ent. Soc. B. 27: 177, 1932.
- Grain bug, *see* *Chlorochroa sayi*
- Grain insects
Cartwright et al., Cal. Agr. Mo. B. 22: 156-157, 1933.
Larrimer, USDA YB f. 1933: 216-218.
Murillo, La Hacienda 25: 226-230, '30.
- Grallomyia* spp.
nCresson, Trans. Amer. Ent. Soc. 56: 338-345, 1930.
nCurran, Amer. Mus. Nov. 559: 3-4, '32.
- Grammonota* spp.
iBishop & Crosby, J. N.Y. Ent. Soc. 40: 393-420, 1932.
- Grandolobus*
nBall, P. Biol. Soc. Wash. 45: 75-76, '32.
- *Granary weevil, *see* *Sitophilus granarius*
- *Granulate cutworm, *see* *Feltia annexa*
- *Grape-berry moth, *see* *Polychrosis viteana* (Clem.)
- *Grape colaspis, *see* *Colaspis brunnea* (F.)
- *Grape curculio, *see* *Craponius inaequalis*
- *Grape flea beetle, *see* *Altica chalybea* Ill.
- Grape insects
Caesar & Ross, Ent. Soc. Ont. R. 60: 18-19, 1930.
bClausen, USDA C. 168: 33-36, 1931.
Dean, Kans. St. Hort. Soc. Bien. R. 40: 137-139, 1930.
Dietz, N.Y. St. Inst. Appl'd Agr. L.I. Control. Pests of Tree Fruits: 3-5, 27-28, 1929.
iDoane, Common Pests: 197-204, 1931.
iEssig & Hoskins, Cal. Ext. C. 87: 55-58, 1934.
Felt, J. Ec. Ent. 25: 418, 1932.
Fite & Curry, N.Mex. B. 328: 24-25, 1931.
iFleming et al, USDA C. 317: 7, 1934.

- Garlick, Ent. Soc. Ont. R. 65: 108-112, 1934.
- Iscly, J. Ec. Ent. 23: 95-97, 1930.
- Jungerman, Pac. Rur. Press 127: 192, 1934.
- Lord, Fla. Dept. Agr. B. 63, n.s.: 16-18, [n.d.].
- iMackie, Cal. Agr. Mo. B. 21: 311-315, 1932.
- Marlatt, USDA Ent. R. f. 1931: 17-18; R. f. 1932: 5; R. f. 1933: 9.
- Martin, USDA YB f. 1933: 197.
- Moulton, Cal. Agr. Mo. B. 20: 749-750, 1932.
- Newell, Fla. St. Pl. Bd. Bien. R. 9: 14-15, 1933.
- iPettit, Mich. Sp. B. 239, 1933, 18p.
- iQuaintance & Siegler, USDA FB 1666: 84-88, 1931.
- Ross & Caesar, Ent. Soc. Ont. R. 62: 8-9, 1932.
- Ruggles, Minn. Hort. 62: 33, 1934.
- Runner, Ohio St. Hort. Soc. P. 65: 206-211, 1932.
- Sanderson, Ins. Pests Farm, ed. 3: 410-432, 1931.
- Schoene & Wingard, Va. Fruit 22(5): 13-14, 16, 1934.
- Swartwout, Missouri Ext. C. 293, 1932. 4p.
- *Grape leaf folder, *see* *Desmia funeralis*
- *Grape leafhopper, *see* *Erythroneura comes*
- *Grape leaf skeletonizer, *see* *Harrisina americana*
- *Grape mealybug, *see* *Pseudococcus maritimus*
- *Grape phylloxera, *see* *Phylloxera vitifoliae*
- *Grape plume moth, *see* *Oxyptilus periscelidactylus*
- *Grape rootworm, *see* *Fidia viticida*
- Graphiphora c-nigrum (Spotted cutworm)*
- bCrumb, Bklyn. Ent. Soc. B. 27: 87-88, 1932.
- LaCroix, Conn. B. 335: 263-264, 1932.
- iMickel, J. Ec. Ent. 25: 1123, 1932.
- Newcomer, USDA C. 270: 29-31, 1933.
- Graphiphora normaniana
- Phipps, Maine B. 356: 158-159, 1931.
- Graphocephala dominicana, haitiensis
- inDozier, Amer. Mus. Nov. 510: 9-10, '31.
- Graphocephala versuta
- biEwing & McGarr, J. Ec. Ent. 26: 943-953, 1933.
- Graphoderes manitobensis
- nWallis, Can. Ent. 65: 276-278, 1933.
- Grapholitha caryana
- Weaver, Farm & Ranch 49(2): 25, '30.
- Grapholitha conversana
- biRockwood, J. Agr. Res. 43: 57-65, '31.
- †Grapholitha molesta (Busck) (Oriental fruit moth)*
- Alden, Ga. St. Bd. Ent. B. 71: 9-10, 1930.
- iAlden, Ga. St. Bd. Ent. B. 73: 21-22, 1930.
- iAlden & Clarke, Ga. St. Bd. Ent. B. 74, 1931. 23p.
- Bailey, Mass. Ext. Leaf. 146: 12-13, 1933.
- Berly, S.C. C. 43: 24, 1930.
- Briand, Can. Ent. 63: 123-126, 1931.
- Brittain, N.S. Fr. Grow. Assoc. R. 66: 143, 1930.
- Britton, Conn. B. 344: 138-139, 1933.
- Butler, Tenn. St. Hort. Soc. P. 26: 43-44, 1931.
- iCaesar, Ont. B. 356: 67-70, 1930.
- Caesar, Ont. Min. Agr. R. f. 1932: 46, 1933.
- iCagle, Va. Poly. B. 270, 1930, 48p
- iCagle, Va. St. Hort. Soc. P. 35: 104-117, 1930.
- Cagle, Va. Fr. 19(4): 12, 1931.
- iCagle, Va. St. Hort. Soc. P. 36: 164-169, 1931.
- Cagle, Va. Fr. 21(3): 12-13, 1933.
- Cartwright, S.C. R. 47: 58-59, 1934.
- Chandler, J. Ec. Ent. 23: 596-599, '30.
- bClausen, USDA C. 168: 11-12, 1931.
- Daniel, J. Ec. Ent. 23: 215-217, 1930; 24: 317-318, 1931.
- Davis, Ind. Acad. Sci. P. 39: 296-297, 1930.
- Davis, Ind. Hort. Soc. Trans. 69: 62, 99-105, 1930.
- iDavis & Gardner, Ind. Ext. B. 176: 5-8, 1931.
- Davis & Steiner, Hoosier Hort. 12(1): 9-11, 1930.
- Dean, Kans. St. Hort. Soc. Bien. R. 41: 126-127, 1932.
- biDeLong, Ohio J. Sci. 34: 188-189, 1934.

†*Grapholitha molesta* (Busck) *Cont'd*

- Doane, Common Pests: 166-167, 1931.
 Dozier, Del. B. 162: 42-43, 1929.
 Driggers, J. Ec. Ent. 23: 209-215, 1930.
 Driggers, N.J. Dept. Ent. R. f. 1929: 150, 1930.
 Driggers, N.J. R. 51: 148, 1930; R. 52: 189-192, 1931.
 Drinkard, Va. St. Hort. Soc. P. 35: 160, 1930.
 Drinkard, Va. Poly. Inst. R. f. 1927-1931: 36.
 Dustan, Ont. Agr. Col. & Expt. Farm. R. 55: 103, 1930.
 Dustan, Ent. Soc. Ont. R. 61: 52-57, '31.
 Dyer, Ind. Hort. Soc. Trans. f. 1930: 126-127.
 Eddy, Ky. St. Hort. Soc. Trans. 77: 82, 1932.
 iEddy & Nettles, S.C. R. 43: 62-65, '30.
 Eddy & Nettles, J. Ec. Ent. 24: 861, 1931.
 Eddy & Nettles, S.C. B. 278, 1931, 21p.
 biEddy et al., S.C. C. 38, 1930, 31p.
 Eddy et al., Ky. B. 353: 224, 1934.
 Fleury, Cal. Agr. Mo. B. 19: 828, 1930.
 Flint, Amer. Pom. Soc. P. f. 1929-1930: 42-43.
 Flint, Iowa Hort. Soc. Trans. 65: 92-93, 1930.
 Flint & Chandler, Ill. St. Hort. Soc. Trans. 64: 554-560, 1930.
 Frost, Penn. St. Col. B. 258: 36-37, '30.
 iFrost, J. Ec. Ent. 24: 302-309, 1931.
 Frost, Penn. St. Col. B. 279: 16, 1932.
 biGarman, Conn. Pom. Soc. P. 38: 102-105, 1929; P. 39: 43-45, 1930; P. 41: 68-73, 1932.
 Garman, J. Ec. Ent. 23: 203-205, 1930.
 biGarman, Conn. B. 313: 401-451, 1930; B. 327: 521-525, 1931; B. 338: 567-572, 1932; B. 349: 427-429, 453-454, 1933.
 Garman, Mass. Fr. Grow. Assoc. R. 38: 21-29, 1932.
 Gibson, Can. Hort. Fr. & Truck ed. 53: 50, 1930.
 iHeadlee, Canning Age 12: 684, 1931.
 Headlee, N.J. Dept. Ent. R. f. 1929: 154-156, 1931.
 Headlee, N.J. St. Hort. Soc. P. f. 1930: 55-58, 1931.

- Headlee, N.J. R. 53-54: 38, 1933.
 Hodgkiss, Penn. St. Hort. Soc. P. 74: 38, 1933.
 Hooker, USDA Exp. Sta. R. f. 1931: 47-48, 1932.
 Hoppert, Neb. St. Hort. Soc. R. 61: 94-96, 1930.
 Hungerford, Kans. St. Hort. Soc. Bien. R. 42: 57-59, 1934.
 Hutson, Mich. St. Hort. Soc. R. 60: 138-141, 1931.
 iHutson, Mich. Sp. B. 244: 25-28, 1933.
 Hutson, Mich. St. Hort. Soc. R. 62: 100-101, 1933.
 Jacobson, Cal. Agr. Mo. B. 19: 828, '30.
 iJohnson, Missouri Ext. C. 256, 1930, 4p.
 Johnston, Mich. St. Hort. Soc. R. 60: 112, 1931.
 Lathrop, USDA Off. Rec. 9(18): 5, '30.
 Liston, Kans. Ent. Com. Bien. R. 13: 9-10, 1932.
 McConnell, Peninsula Hort. Soc. Trans. 44: 111-114, 1930.
 biMcConnell, Md. B. 364: 411-456, 1934.
 Magill, Ky. Hort. Soc. Trans. 75: 58-60, 1930.
 Marlatt, USDA Ent. R. f. 1931: 5-8; R. f. 1933: 6-7.
 iMumford, Ill. R. 43: 143-145, 1930; R. 46: 146-147, 1933.
 Neiswander & Stearns, J. Ec. Ent. 23: 75-80, 1930.
 Neiswander & Vogel, Ohio B. 470: 91-94, 1931; B. 497: 71-73, 1932; B. 516: 52-53, 1933.
 Neiswander & Vogel, Ohio St. Hort. Soc. P. 64: 29-43, 1931; P. 65: 124-134, 1932; P. 66: 152-161, 1933.
 Neiswander & Vogel, Amer. Pom. Soc. P. 48: 124-134, 1932.
 Nettles, S.C. R. 44: 68-69, 1931.
 biNettles, J. Ec. Ent. 25: 799-807, 1932.
 iNettles, S.C. R. 45: 72-75, 1932.
 Newcomer, Ida. St. Hort. Assoc. P. 35: 38-39, 1930.
 Parrott, N.Y. St. Hort. Soc. P. 76: 30-31, 1931.
 Parrott, J. Ec. Ent. 25: 355-360, 1932.
 Patterson, Md. R. 45: 17, 1932.
 Peck, N.Y. (C.) Ext. B. 208: 28, 1931.
 Peterson, Ind. Hort. Soc. Trans. 69: 20-25, 1930.

- iPettit, Mich. Ent. R. f. 1929: 4-5; R. f. 1931: 4.
 Pettit, Mich. R. 44: 254-255, 1931.
 Plass, Mich. St. Hort. Soc. R. 61: 19-24, 1932.
 Porter, Amer. Pom. Soc. P. 48: 115-123, 1932.
 Porter, Ohio St. Hort. Soc. P. 65: 115-121, 1932.
 Powell, Mich. St. Dept. Agr. Bien. R. 4: 44, 1930.
 Price, Ky. Hort. Soc. Trans. 75: 31-39, 1930; 76: 57-64, 1931.
 Quaintance & Siegler, USDA FB 1270 rev.: 10-12, 1931; FB 1666: 66-67, 79-80, 1931.
 iReed, Ind. C. 179: 7-8, 1931.
 Richardson, Iowa Hort. Soc. Trans. 66: 11, 1931.
 iRoss, Ent. Soc. Ont. R. 62: 40-43, 1932.
 Ross & Putnam, Ent. Soc. Ont. R. 64: 40, 1933.
 iSanderson, Ins. Pests Farm, ed. 3: 389-394, 1931.
 Skinner & Reed, Ind. R. 42: 37, 1929; R. 43: 38-39, 1930; R. 44: 30-31, 1931; R. 45, 38, 1932.
 Slate, Conn. B. 357: 123, 1934.
 iSnapp, USDA FB 1557 rev.: 23-26, '31.
 Snapp & Thomson J. Ec. Ent. 23: 1007, 1930; 25: 726-727, 1932.
 iStearns, Cal. Agr. Mo. B. 19: 275-278, 1930.
 Stearns, Conn. Pom. Soc. P. 39: 45-55, 1930.
 Stearns, Peninsula Hort. Soc. Trans. 44: 115-126, 1930.
 iStearns, Va. St. Hort. Soc. P. 35: 104-117, 1930.
 Stearns & McCreary, Del. B. 179: 36-37, 1932.
 Stearns & Neiswander, J. Ec. Ent. 23: 81-85, 1930.
 biStearns & Neiswander, Ohio B. 446: 78-80, 1930; B. 457, 1930, 36p.
 Stearns et al., Del. B. 167: 29-30, 1930; B. 172: 36, 1931; B. 188: 32-33, 1934.
 Steenburgh, Ent. Soc. Ont. R. 65: 68-72, 1934.
 Steiner, J. Ec. Ent. 25: 864-868, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 72, 1933; R. 65: 120, 1934.
 Wallace, Ind. Dept. Conserv. R. 11: 51, 1929.
 Williams, Ohio B. 532: 42-43, 1934.
 Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 245, 1932.
 Yetter, Ida. St. Hort. Assoc. P. 36: 87-90, 1931.
 Yetter, Kans. St. Hort. Soc. Bien. R. 41: 78-81, 1932.
 Yetter, Missouri St. Hort. Soc. P. f. 1930-1932: 91-95.
 Grapholitha molesta—Appropriation
 J. Ec. Ent. 23: 653, 1930.
 Grapholitha molesta—Biological control
 iDaniel et al., N.Y. (Gen.) B. 635, 1933, 27p.
 Steenburgh, Ent. Soc. Ont. R. 61: 57-65, 1931.
 Grapholitha molesta—Burying
 iArmstrong, Ent. Soc. Ont. R. 63: 24-29, 1932.
 Armstrong, Sci. Agr. 13: 403, 1933.
 Grapholitha molesta—Canning factories
 Caesar, Ont. Min. Agr. R. f. 1932: 46, 1933.
 Kennedy, Ont. Agr. Coll. & Exp. Farm R. 56: 118-119, 1930.
 Grapholitha molesta—Control
 Mumford, Ill. R. 42: 146, 1929.
 Grapholitha molesta—Compared with
 Carpocapsa
 Hutson, Mich. St. Hort. Soc. R. 61: 99-103, 1932.
 Grapholitha molesta—Dusting
 Adams, R.I. Ext. B. 53: 10, 1930.
 Grapholitha molesta—Larvae
 Dustan, Ent. Soc. Ont. R. 60: 108-111, 1930.
 Lipp, J. Ec. Ent. 23: 205-208, 1930.
 Grapholitha molesta—Larvicides
 Ross et al., Ent. Soc. Ont. R. 60: 111-116, 1930.
 Grapholitha molesta—Moisture
 iDustan & Armstrong, Ent. Soc. Ont. R. 63: 29-39, 1932.
 Grapholitha molesta—Oviposition cages
 iDustan, Can. Ent. 63: 273-275, 1931.
 Grapholitha molesta—Overwintering
 Driggers, N.J. R. 50: 163-165, 1929.
 Headlee, N.J. Dept. Ent. R. f. 1929: 156-157, 1930.

†*Grapholitha molesta*—Parasites

- iAlden, Ga. St. Bd. Ent. B. 71: 9-10, 1930.
 Allen, J. Ec. Ent. 24: 309-314, 1931; 25: 360-367, 1932.
 Allen, USDA YB f. 1932: 277-278.
 Allen, Mass. Fr. Grow. Assoc., Inc., R. 40: 26-33, 1934.
 Allen & Haeussler, J. Ec. Ent. 25: 1148-1151, 1932.
 iAllen & Warren, J. Ec. Ent. 25: 374-380, 1932.
 Butler, Tenn. St. Hort. Soc. R. 27: 75-80, 1931.
 Butler, J. Ec. Ent. 26: 982-987, 1933.
 iCoggswell, Pop. Mech. 55: 399-401, 1931.
 iCox, N.Y. (Gen.) TB 188, 1932, 26p.
 Crosby, N.Y. St. Hort. Soc. P. 77: 14-15, 1932.
 Daniel, N.Y. St. Hort. Soc. P. 76: 8-10, 1931.
 biDaniel, N.Y. (Gen.) TB 187, 1932, 101p.
 Driggers, N.J. R. 50: 165-167, 1929.
 biDriggers, N.J. B. 510, 1930, 19p.
 Driggers, N.J. R. 52: 191-192, 1931.
 bDriggers, J. N.Y. Ent. Soc. 40: 489-496, 1932.
 Eddy & Nettles, S.C. B. 278: 19-20, 1931.
 Gardner, Mich. Bien. R. f. 1933/34: 29-30.
 Garman, Conn. Pom. Soc. P. 39: 39-43, 1930; P. 40: 42-46, 1931; P. 44: 24-26, 1934.
 Garman, J. Ec. Ent. 24: 315-316, 1931.
 biGarman, Conn. B. 356: 73-116, 1933; B. 349: 427-429, 1933; B. 360: 462-463, 1934.
 biGarman & Brigham, Conn. B. 356: 69-116, 1933.
 Garman & Schread, Ann. Ent. Soc. Amer. 24: 424-426, 1931.
 biHaeussler, J. Agr. Res. 41: 365-377, 1930.
 Haeussler, J. Agr. Res. 45: 79-100, '32.
 Headlee, N.J. Dept. Ent. R. f. 1930: 158-159, 1931.
 Houser, Ohio B. 470: 94-95, 1931.
 Hutson, Mich. St. Hort. Soc. R. 62: 100-101, 1933.

- Kennedy, Ont. Agr. Coll. & Exp. Farm R. 56: 121-122, 1930.
 McConnell, Peninsula Hort. Soc. Trans. f. 1931: 105-108.
 McConnell, J. Ec. Ent. 25: 367-370, 1932.
 biMcConnell, Md. B. 364: 439-456, 1934.
 McHatton, Ky. Hort. Soc. Trans. 75: 108, 1930.
 Marlatt, USDA Ent. R. f. 1932: 3-4.
 Merritt, J. Ec. Ent. 26: 788-792, 1933.
 Merritt, Mich. Quar. B. 15: 224-225, 1933.
 Montgomery, Can. Ent. 65: 185-190, 1933.
 Mumford, Ill. R. 44: 143-144, 1931.
 Murrell, Tenn. St. Hort. Soc. P. 25: 22-23, 1930.
 Neiswander & Vogel, Ohio St. Hort. Soc. P. 66: 154-159, 1933.
 iNettles, S.C. R. 46: 76-79, 1933.
 bNettles, J. Ec. Ent. 27: 814-817, 1934.
 Pepper & Driggers, Ann. Ent. Soc. Amer. 27: 593-598, 1934.
 Peterson, USDA TB 215, 1930, 22p.
 Putman, Can. Ent. 64: 121-126, 1932.
 Putman, Ent. Soc. Ont. R. 62: 44-45, 1932.
 Slate, Conn. B. 347: 275, 1933; B. 357: 125, 1934.
 Stearns, Tenn. St. Hort. Soc. P. 25: 23-24, 1930.
 Stearns & Neiswander, Ohio B. 457: 16-18, 1930.
 iSteenburgh, Can. Ent. 62: 71-75, 1930.
 Steenburgh, Ent. Soc. Ont. R. 60: 124-130, 1930; R. 62: 66-69, 1932; R. 65: 68-72, 1934.
 bSteenburgh, Can. J. Res. 10: 287-314, 1934.
 Street, Ill. St. Hort. Soc. Trans. 64: 561-566, 1930.
 Uchida, J. Wash. Acad. Sci. 23: 147-148, 1933.
 Weir, Can. Min. Agr. R. f. 1930/1931: 143; R. f. 1931/1932: 177, 186; R. f. 1932/1933: 53.
 White, USDA YB f. 1933: 367.
***Grapholitha molesta*—Parasites—Distribution**
 Daniel, Amer. Agr. 126: 262, 1930.
 Daniel, Fruits & Gardens 46(12): 11, '31.

- Garman et al., Conn. Pom. Soc. P. 43: 81-83, 1933.
 Slate, Conn. B. 322: 125, 1931.
 Slate, Conn. B. 337: 462-463, 1932.
 Fruits & Gardens 46(9): 11, 1930.
 Md. Ext. Serv. News 15(4): 3, 1930.
- Grapholitha molesta—Quarantine**
 Blackwell, Okla. R. f. 1926/30: 268.
 Fleury, Cal. Agr. Mo. B. 22: 527, 1933.
 Hecke, West. Flor. 13(8): 18, 1930.
 J. Ec. Ent. 26: 1008, 1933.
 J. Ec. Ent. 27: 554, 1934.
- Grapholitha molesta—Rejection of fruit**
 Ryan, Cal. Agr. Mo. B. 20: 201, 1931.
- Grapholitha molesta—Sprays & spraying**
 Driggers, N.J. R. 50: 150-161, 1929.
 Driggers, J. Ec. Ent. 24: 319-325, 1931.
 Frost, J. Ec. Ent. 25: 381-385, 1932.
 iFrost, J. Ec. Ent. 26: 334-344, 1933.
 iMacCreary, Del. B. 184, 1933, 43P.
 Magill, Ky. Hort. Soc. Trans. 75: 58-60, 1930.
 iMumford, Ill. R. 45: 138-139, 1932.
 iRicks, Wis. Hort. 22: 285-286, 1932.
 iRoss et al., Ent. Soc. Ont. R. 60: 116-124, 1930.
 Stearns, Ohio Hort. Soc. P. 63: 14-17, 1930.
 Stearns & Neiswander, Ohio B. 457: 18-33, 1930.
 Yetter, Missouri St. Hort. Soc. P. f. 1930-32: 91-95.
- Grapholitha molesta—Temperature**
 iDustan & Armstrong, Ent. Soc. Ont. R. 63: 29-39, 1932.
 Dustan & Armstrong, Sci. Agr. 13: 403, 1933.
 biGarman & Brigham, Conn. B. 356: 75-88, 1933.
 iNettles, S.C. R. 46: 77-78, 1933.
 iPetersen & Haeussler, USDA TB 183, 1930, 35P.
- Grapholitha molesta—Time of leaving fruit**
 iCagle, J. Ec. Ent. 25: 678-681, 1932.
- Grapholitha molesta—Traps—Bait**
 Dyer, Hoosier Hort. 12: 74-76, 1930.
 Forst, Penn. B. 266: 30, 1931.
 biFrost, Penn. B. 301, 1933, 35P.
 Liston, Kans. Ent. Comm. Bien. R. 14: 7, 1934.
 Quaintance & Siegler, USDA FB 1666: 37-38, 1931.
- iSteiner & Yetter, J. Ec. Ent. 26: 774-788, 1933.
 Yetter, Ind. Hort. Soc. Trans. 69: 105-110, 1930.
 Yetter, J. Ec. Ent. 23: 85-91, 1930.
 Yetter, Ill. St. Hort. Soc. Trans. 64: 567-571, 1931.
 Yetter & Steiner, J. Ec. Ent. 24: 1181-1197, 1931; 25: 106-116, 1932.
- Grapholitha molesta—Traps—Band**
 Flint & Farrar, Wis. Hort. 22: 287, '32.
- Grapholitha molesta—Traps—Light**
 biDriggers & Pepper, J. Ec. Ent. 25: 385-392, 1932.
- iMartin, Pop. Sci. Mo. 123(3): 94, 1933.
- Grapholitha molesta and Peach canker**
 biWillison, Sci. Agr. 15: 35-47, 1933.
- Grapholitha packardii (Cherry fruitworm)***
 iDownes, Can. Dept. Agr. Ent. Br. C. 79, 1931, 3P.
 Twinn, Ent. Soc. Ont. R. 65: 120, 1934.
- Grapholitha prunivora (Lesser apple worm)***
 Buckell, Ent. Soc. Ont. R. 60: 32, 1930.
 iCaesar, Ont. B. 356: 14-15, 1930.
 iGranovsky, Minn. Hort. 59: 60-61, '31.
 Keifer, J. Ec. Ent. 26: 509, 1933.
 Pettit & Hutson, Mich. C. B. 137: 44, 1931.
 Quaintance & Siegler, USDA FB 1270 rev.: 8-10, 1931.
 iRoss, Can. Dept. Agr. B. 129: 40, 1930.
 Twinn, Ent. Soc. Ont. R. 65: 119, 1934.
- Grapholitha spp.**
 iHutson, Mich. Sp. B. 244: 19-20, 1933.
- Graphopsocus cruciatus**
 Chapman, J. N.Y. Ent. Soc. 38: 341-343, 1930.
- Graptoblatta, G. testacea**
 nHebard, P. Acad. Nat. Sci. Phila. 81: 23-26, 1929.
- Graptocorixa**
 nHungerford, Pan-Pac. Ent. 7: 22-23, 1930.
- Graptolitha antennata (Green fruitworm)***
 Bailey, Vt. Com. Agr. Bien. R. 17: 73, 1934.
 Regan, Wash. St. Hort. Assoc. P. 25: 135, 1929.
 biRose et al., USDA Misc. Pub. 168: 35, 1933.

Graptolitha laticinerea

iCaesar, Ont. B. 356: 41-42, 1930.

Graptolitha spp. (Green fruit worms)

Maltais, Que. Pom. & Fr. Grow. Soc. R. 40: 101, 1933.

iNewcomer, USDA C. 270: 31-32, 1933.

Pettit & Hutson, Mich. C. B. 137: 26-27, 1931.

iQuaintance & Siegler, USDA FB 1270 rev.: 22-23, 1931.

iRoss, Can. Dept. Agr. B. 129: 45, 1930.

Twinn, Ent. Soc. Ont. R. 65: 119, 1934.

Grass-carrier wasp, see Chlorion (Isodontia) harrisi**Grass insects**

Grimes, Kans. Bien. R. 7: 107-109, '34.

Wilbur, Kans. Bien. R. 6: 95-96, 1932.

Grass insects, see also Pasture grass insects

*Grass thrips, see Anaphothrips obscurus

Grass worm, see Laphygma frugiperda

*Grasshopper maggot, see Sarcophaga kellyi

Grasshoppers

Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(5): 39, 1931.

Atkinson, Sci. Agr. 12: 202, 1931.

biBaumgartner & Payne, J. Exp. Zool. 59: 359-393, 1931.

Beal, N.Y. (C.) Ext. B. 212: 30, 1932.

Brooks, Mowry & Watson, Fla. Co-op. Ext. B. 63: 49-50, 1932.

Burkett, Tex. Dept. Agr. B. 111: 210, 1932.

iCardon, Utah B. 235: 56, 1932.

bChamberlin, J. Ec. Ent. 25: 722-725, 1932.

Compton, Ill. C. 391: 20-21, 1932.

Davis, Ind. Ext. B. 186: 10, 1932.

Doane, Common Pests: 233-235, 1931.

Donohue, Ent. News 43: 133-134, '32.

Drake & Decker, Iowa Ext. B. 182: 10-16, 1932.

iDustan, Can. Dept. Agr. Ent. B. 32: 21-22, 1932.

Elcock et al., N.Mex. B. 207: 26, 1933.

iGilbert & Popenoe, USDA FB 1371 rev.: 5, 1930.

Haseman, Missouri B. 310: 30-31, '32.

Hatch, Wis. Ext. R. f. 1930-31: 25.

Hatch, Wis. C. 251: 24, 1932.

Hyde, USDA YB f. 1933: 82.

Lacroix, Conn. B. 326: 427-428, 1931.

Larsen, S.D. Bien. R. f. 1930/32: 22-23.

iLinfield, Montana R. 38: 43-45, 1931.

biLockwood, Cal. Agr. Mo. B. 22: 321, 1933.

Lyness, Kans. Farm. 69(32): 2, 1931.

iMabec, Mont. Farm. 17(12): 16, 1930.

Marlatt, USDA Ent. R. f. 1931: 28-29; R. f. 1933: 14-15.

Marlatt, USDA Off. Rec. 11: 157, 1932.

Metzger, Col. B. 412: 87-88, 1934.

iMitchener, Manitoba Dept. Agr. Ext. B. 98, 1932, 11p.

iParker & Walton, USDA FB 1691, 1932, 14p.

iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 11(8), 1931, 4p.

Quaintance & Siegler, USDA FB 1270 rev.: 69-72, 1931.

Rehn, Ent. News 43: 175-177, 1932.

Ruhmann, B.C. Dept. Agr. R. 24: 183, 1930.

Sanderson, Ins. Pests Farm ed. 3: 83-87, 1931.

Sandsten, Col. R. 46: 14, 1933.

iSchollander, Nat. Underwriter 35(16), Hail & Tornado Insert. XVI, 1931. Shull, Ida. Ext. B. 80, 1934, 8p.

biSlifer, J. Exp. Zool. 67: 137-157, 1934.

iSmith, J. Kans. Ent. Soc. 5: 82-83, '32.

iSnapp, USDA FB 1557 rev.: 29-30, '31.

biSorenson, Utah C. 98: 21-25, 1932.

iStrand, Mont. B. 269: 8-12, 1932; B. 294: 7-28, 1934.

biStrickland, Alberta Univ. Coll. Agr. B. 24: 11-17, 1933.

Strong, USDA Ent. R. f. 1934: 7-8.

Vorhies, Ariz. R. 43: 90, 1932.

Wakeland, Ida. News Letter 14: 3, '30.

Walton, Science 79(2059 sup): 7, 1934.

Watson, Fla. B. 232: 18-19, 1931.

iWatson & Berger, Fla. Ext. B. 67: 118-120, 122-123, 1932.

iWeed, Insect Ways: 256-268, 1930.

Weir, Can. Min. Agr. R. f. 1932/33: 47.

Grasshoppers—Aeroplane dusting

iDippold, Seed World 31(4): 18, 1932.

iDrake & Decker, J. Ec. Ent. 25: 189-196, 1932.

Grasshoppers—Appropriation

C.L.L., Seed World 36(12): 28, 1934.

- Linz, Flor. Exch. 79(26): 18, 1932.
 Simmons, Hearing, Cong. 72, Sess. 1 on
 H. J. Res. 377, May 2, 1932, 30p.
 (Serial J)
- Grasshoppers—Arizona**
 Burgess, Ariz. R. 44: 43-45, 1933.
- Grasshoppers—Arkansas**
 bHorsfall, Dowell & Palm, J. Kans.
 Ent. Soc. 6: 98-104, 1933.
- Grasshoppers—Arsenic in poison-bait**
 iHopper, J. Ec. Ent. 26: 292, 1933.
- Grasshoppers—Biological control**
 Kramer, Dak. Farm. 53: 253, 1933.
 Sci. News Letter 24: 132, 1933.
- Grasshoppers—British Columbia**
 Buckell, Ent. Soc. Ont. R. 61: 31, 1931.
- Grasshoppers—California**
 Lockwood, Cal. Cult. 81: 323, 334, '34.
- Grasshoppers—Canada**
 iCriddle, Can. Dept. Agr. B. 143, n.s.
 1931, 18p.
 iCriddle, Can. Dept. Agr. n.s. Pam. 146,
 1932, 8p.
 Gibson, Can. Hort. Fr. & Truck ed. 53:
 48, 1930.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.:
 38-39, 1934.
 bSeamans, Pac. Sci. Cong. 5, P. 5: 3478-
 3479, 1934.
 Weir, Can. Min. Agr. R. f. 1933/34: 55.
- Grasshoppers—Cannibalism**
 James, Science n.s. 75: 266, 1932.
 Sci. News Letter 21: 160, 1932.
- Grasshoppers—Cells**
 biLucas & Stark, J. Morph. 52: 91-111,
 1931.
- Grasshoppers—Diseases**
 Larrimer, USDA Off. Rec. 11: 173, '32.
- Grasshoppers—Ecology**
 Vestal, Ecolog. Soc. Amer. B. 11(4):
 15-16, 1930.
- Grasshoppers—Eggs**
 Burr, Neb. R. 46: 20, 1933.
 Drake & Richardson, Iowa Agr. Res. R.
 f. 1932: 59-60.
 biEvans, Physiol. Zool. 7: 556-571, 1934.
 biKing & Slifer, J. Morph. 56: 603-619,
 1934.
 iSeverin & Gilbertson, S.D. B. 267,
 1931, 14p.
 biSlifer, Physiol. Zool. 3: 503-518, 1930.
 biSlifer & King, J. Morph. 56: 593-601, '34.
- Grasshoppers—Extension service**
 bWorthington & Pearson, J. Ec. Ent. 26:
 668-672, 1933.
- Grasshoppers—Food preference**
 bCriddle, World's Grain Exhib. & Conf.,
 Can. 1933: 480-481.
 biLangford, Col. B. 354, 1930, 53p.
 Mail, J. Ec. Ent. 24: 767-768, 1931.
- Grasshoppers—Histology**
 biWoodruff, J. Morph. 55: 53-79, 1933.
- Grasshoppers—Honey crop reduction**
 iGrout & Decker, Amer. Bee J. 71: 548-
 549, 1931.
- Grasshoppers—Iowa**
 Drake, Iowa Dept. Agr. YB 32: 91-98,
 1932; YB 33: 50-51, 1933.
 iDrake & Decker, Iowa Ext. Serv. B.
 182, 1932, 16p.
 Thornburg, Iowa Dept. Agr. YB 32:
 11-12, 1932.
- Grasshoppers—Kansas**
 iSmith, J. Kans. Ent. Soc. 7: 47, 1933.
- Grasshoppers—Manitoba**
 bCriddle, Can. Ent. 65: 97-102, 1933.
 iMitchener, Ent. Soc. Ont. R. 61: 20,
 1931; R. 63: 45-48, 1932; R. 64: 52-
 55, 1933; R. 65: 87-89, 1934.
 Mitchener, Sci. Agr. 13: 406, 1933.
 Weir, Can. Min. Agr. R. f. 1931/1932:
 188.
- Grasshoppers—Mexico**
 Ramirez, Rev. Unidas 48(9): 49-51, '32.
 Rouaix, Rev. Unidas 47(8): 43-45, '31.
- Grasshoppers—Michigan**
 Hutson, Mich. Quar. B. 17: 72-74, '34.
- Grasshoppers—Minnesota**
 Aamodt, J. Ec. Ent. 27: 694-702, 1934.
 iRuggles, J. Ec. Ent. 27: 96-101, 1934.
- Grasshoppers—Morphology**
 Henderson, Utah C. 96: 20-22, 1931.
 Slifer, J. Morph. 53: 1-21, 1932.
- Grasshoppers—Nerve cells**
 biBeams & King, J. Morph. 53: 59, 1932.
- Grasshoppers—Non-arsenical poisons**
 Thompson, Cit. Ind. 13(9): 21, 24, '32.
 Thompson, Fla. St. Hort. Soc. P. 45:
 119-123, 1932.
 Cit. Ind. 13(10): 22, 24, 1932.
- Grasshoppers—Northwest U.S.**
 Walton, Science n.s. 79(2059 sup.): 7,
 1934.

Grasshoppers—Nova Scotia

Goucher, N.S. Dept. Agr. R. f. 1931:
129-130, 1932; R. f. 1932: 141-144,
1933.

McDonald, N.S. Dept. Agr. R. f. 1933:
69-70, 1934.

Grasshoppers—Outbreaks

bBriggs, Agr. Hist. 8: 51-63, 1934.

Chambers, Wis. Hort. 24: 225, 1934.

Drake, Seed World 36(3): 25, 1934.

Drake & Richardson, Iowa R. f. 1932:
59; R. f. 1934: 99.

Frison, Peoria Acad. of Sci. 1(2): 1, '33.

Haas, N. & S.Dak. Hort. 4: 70-71, '32.

iKing & Vigor, Ent. Soc. Ont. R. 65: 5-
21, 1934.

Knowlton & Janes, J. Ec. Ent. 24:
1097, 1931.

Knowlton & Janes, Utah Acad. Sci. P.
9: 105-108, 1932.

iLarrimer, Lit. Dig. 113: 22, June 18,
1932.

Larrimer, P. Ent. Soc. Wash. 34: 9, '32.

Larrimer, Sci. News Letter 21: 311, '32.

iLarrimer, USDA YB f. 1934: 236-239.

Linfield, Mont. R. 41: 39-40, 1934.

Marlatt, USDA Ent. R. f. 1932: 10-12.

Parker, J. Ec. Ent. 26: 102-108, 1933.

Ruggles, J. Ec. Ent. 25: 187-189, 1932.

Stanley, J. Ec. Ent. 26: 300-301, 1933.

Wade, P. Ent. Soc. Wash. 34: 9-10, '31.

Grasshoppers—Ovary development

biNelsen, J. Morph. 55: 515-543, 1934.

Grasshoppers—Parasites

Criddle, Can. Dept. Agr. n.s. B. 143:
12, 1931.

McDonald, N.S. Dept. Agr. R. f. 1933:
70, 1934.

Grasshoppers—Parthenogenesis

Slifer & King, Sci. News Letter 22: 149,
1932.

Grasshoppers—Ploughing

iMunro, N.Dak. C. 52, 1933, 4p.

iParker, USDA C. 302, 1933, 4p.

†Grasshoppers—Poison bait

iCaesar, Ont. Dept. Agr. B. 359: 9-10,
1931.

bCowan, Col. TB 7, 1934, 18p.

Criddle, Can. Dept. Agr. B. 143 n.s.:
9-11, 1931.

iDustan, Can. Dept. Agr. B. 161 n.s.:
21-22, 1932.

Ford & Munro, Dak. Farm. 52: 311,
1932.

biHebard, Ill. Nat. Hist. Surv. B. 20:
266-269, 1934.

Hutson, Mich. Quar. B. 15(1): 20-22,
1932.

List, Col. R. 45: 44, 1932.

iList, Col. St. Ent. C. 59, 1934, 16p.

Morse, J. Ec. Ent. 23: 465, 1930.

iMunro & Riddle, N.Dak. C. 42 rev.:
38-40, 1933.

Parker, Pac. Sci. Cong 5, P. 5: 3459-
3471, 1934.

Parker et al, J. Ec. Ent. 25: 174-187,
1078-1082, 1932; 27: 89-96, 1934.

Reppert, Farm & Ranch 49(23): 20, '30.

biRichardson & Haas, J. Ec. Ent. 25:
1078-1088, 1932.

Robertson, S.Dak. St. Hort. Soc. R. 29:
20-22, 1932.

Ross, Ariz. Ext. Proj. C. 14: 13, 1933.

iRuggles, Minn. Hort. 59: 196-197,
1931; 62: 153, 1934.

Shull, Ida. News Letter 26(4): 3, 1932.

Shull, Ida. Ext. B. 80, 1934, 8p.

iStrickland, Alberta Ext. B. 24: 11-17,
1933.

Thompson, Fla. Ent. 18: 5-10, 1934.

biWhitehead, Okla. B. 218, 1934, 54p.

Grasshoppers—Salivary glands

biBeams & King, J. Morph. 53: 223-242,
1932.

Grasshoppers—Species prevalent

iDrake, Iowa YB Agr. 32: 91-98, 1931.

Grasshoppers—Tracheal ventilation

iMcGovran, Ann. Ent. Soc. Amer. 24:
751-761, 1931.

bMcGovran, J. Ec. Ent. 25: 271-276,
1932.

Grasshoppers—Traps

Jardine, Pop. Sci. Mo. 121(1): 108, '32.

iLovell, Pop. Mech. 54: 329, 1930.

iMartenson, Dak. Farm. 54: 27, 1934.

Ross, Ariz. Ext. Project C. 13: 8, 1932.

Grasshoppers—Utah

Cardon, Utah B. 250: 44-45, 1934.

Grasshoppers—Wisconsin

Chambers, Wis. Dept. Agr. B. 141:
100-102, 1933.

Grasshoppers and Cheilospirura hamulosa

Cuvillier, J. Parasit. 19: 244-245, 1933.

- Grasshoppers and cotton wilt
 Taubenhaus & Christenson, Assoc.
 South. Agr. Workers P. 35: 344-345,
 1934.
- Grasshoppers and gulls (Franklin's gull)
 Bradshaw, Can. Field-Nat. 48: 68-69,
 1934.
 Nature Mag. 18: 270, 1931.
- Grasshoppers and sunspots
 bCridle, Can. Field-Nat. 46: 195-199,
 1932.
 DeLury, Can. Field-Nat. 44: 120, 1930.
- Grasshoppers and temperature
 biSlifer, J. Morph. 53: 1-21, 1932.
 iSci. News Letter 20: 19, 1931.
- Grasshoppers in Glacier
 Pop. Mech. 55: 384, 1931.
- *Gray-banded leaf roller, *see* *Argyrotaenia mariana* (Fern.)
- Gray citrus scale, *see* *Coccus pseudomagnoliarum*
- Gray mealybug, *see* *Pseudococcus boninsis*
- Gray snout beetle, *see* *Anametis granulata*
- Gray sugarcane mealybug, *see* *Pseudococcus boninsis*
- Greasy cutworm, *see* *Agrotis ypsilon*
- *Great Basin wireworm, *see* *Ludius pruininus noxius* (Hyslop)
- Great golden digger, *see* *Chlorion ichneumoneum*
- Great spangled fritillary, *see* *Argynnis cybele*
- Greater cocoanut spike moth, *see* *Tirathaba rufivena*
- Greater narcissus fly, *see* *Merodon equestris*
- Greater wax moth, *see* *Galleria mellonella*
- *Greedy scale, *see* *Aspidiotus camelliae*
- Green apple aphid, *see* *Aphis pomi*
- Green apple bug, *see* *Lygus communis*
- Green bird locust, *see* *Schistocerca obscura*
- *Green-bottle flies, *see* *Lucilia* spp.
- *Green bug, *see* *Toxoptera graminum*
- Green cabbage worm, *see* *Pieris rapae*
- Green citrus aphid, *see* *Aphis spireacola*
- *Green clover worm, *see* *Plathypena scabra* (F.)
- Green comma, *see* *Polygonia faunus*
- Green cotton root aphid, *see* *Anuraphis maidi-radiciis*
- Green cuban roach, *see* *Panchlora cubensis*
- Green currant worm, *see* *Diphadnus appendiculatus*
- Green fruit beetle, *see* *Cotinis texana*
- *Green fruitworm, *see* *Graptolitha antennata* (Walk.)
- *Green June beetle, *see* *Cotinis nitida* (L.)
- Green lacewing flies, *see* *Chrysopa* spp.
- *Green peach aphid, *see* *Myzus persicae*
- *Green scale, *see* *Coccus viridis* (Green)
- *Green shield scale, *see* *Pulvinaria psidii*
- Green soldier bug, *see* *Acrosternum hilaris*
- *Green stinkbug, *see* *Acrosternum hilaris*
- Green striped locust, *see* *Chortophaga viridifasciata*
- *Green-striped maple worm, *see* *Anisota rubicunda* F.
- Green tomato worm, *see* *Protoparce sexta*
- Greenbottle fly, *see* *Lucilia sericata*
- Greenhouse centipede, *see* *Scutigera immaculata*
- Greenhouse insects
 Baird, Ent. Soc. Ont. R. 65: 72-73, '34.
 bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57, 1931, 70p.
 Boillot, Missouri St. Bd. Agr. B. 28(2): 29, 1930.
 biBreakley, J. Ec. Ent. 27: 396-398, '34.
 Britton, Conn. B. 315: 498-499, 1930;
 B. 327: 470-471, 574, 1931.
 Busck, P. Ent. Soc. Wash. 35: 191-192, 1933.
 Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12, 1930, 112p.
 Compton, J. Ec. Ent. 24: 1094-1097, 1931.
 Cory, Md. Ext. C. 94, 1932, 6p.
 Dietz, Ohio Veg. Grow. Assoc. P. 15: 170-176, 1930.
 Doane, Common Pests: 311-328, 1931.
 Doering, J. Kans. Ent. Soc. 4(2): 48-49, 1931.
 Felt, J. Ec. Ent. 25: 418, 1932.
 Frison, Ill. Dept. Reg. & Ed. R. 14: 29, 1931; R. 15: 28, 1932.
 bGinsburg, J. Ec. Ent. 27: 1186-1188, 1934.
 iHamilton, N.J. Gard. 2: 19-22, 1931.
 Hamilton, N.J. R. 52: 205-227, 1931.
 iHaseman & Jones, Missouri B. 342, 1934, 32p.

Greenhouse insects *Cont'd*

- Herrick & Griswold, N.Y. (C.) R. 44,
Pt. 2: 47-48, 1931.
- iMcDaniel, Mich. Quar. B. 14: 183-186,
1932.
- Marlatt, USDA Ent. R. f. 1931: 54-56;
R. f. 1933: 22.
- Metzger, J. Ec. Ent. 26: 205-210, 1933.
- Mumford, Ill. R. 45: 143-144, 1932.
- iMyers, J. Ec. Ent. 25: 891-896, 1932.
- Parks, Ohio Veg. Grow. Assoc. P. 17:
50-54, 1932.
- Richardson, J. Ec. Ent. 25: 412, 415, '32.
- iScott et al, Missouri St. Bd. Agr. Quar.
B. 30(4): 10-67, 1932.
- iSheaffer, Ind. Dept. Conserv. Pub. 103:
51-68, 1930.
- Skinner, Ind. R. 46: 28, 1933.
- iSkinner & Reed, Ind. R. 42: 41, 1929.
- iSmith, USDA C. 301, 1933, 13P.
- Thomas, Penn. B. 293: 21, 1933.
- Whitcomb, Mass. B. 305: 36, 1934.
- Wallace, Ind. YB f. 1930: 478-481.
- Williams, Ohio B. 532: 40, 1934.
- Greenhouse insects—Losses from**
Mumford, Ill. R. 46: 159, 1933.
- Greenhouse insects—Naphthalene**
Whitcomb, Mass. B. 280: 219-220, '32.
- biWilcoxon, et al., Boyce Thompson Inst.
Contrib. 5: 461-469, 1933.
- *Greenhouse leaf tier, *see* Phlyctaenia
rubigalis (Guen.)**
- *Greenhouse orthezia, *see* Orthezia in-
signis Dougl.**
- *Greenhouse thrips, *see* Heliothrips
haemorrhoidalis (Bouché)**
- *Greenhouse whitefly, *see* Trialeurodes
vaporariorum (Westw.)**
- Gretchena bolliana (Pecan budmoth)***
Burkett, Tex. Dept. Agr. B. 111: 207,
1932.
- Gill, Ga. St. Ent. B. 77: 41, 1933.
- iMoznette, USDA FB 1654: 28-32, '31.
- Grey comma, *see* Polygonia progne**
- Grey sawyer beetle, *see* Monochamus
notatus**
- Grey sugar cane mealy bug, *see* Trionymus
boninsis**
- "Gribble," *see* Limnoria lignorum**
- Grotiusomyia nigricans**
Gahan, Ann. Ent. Soc. Amer. 25: 750,
1932.

***Ground mealybug, *see* Rhizoecus ter-
restris (Newst.)**

**Ground squirrel flea, *see* Ceratophyllus
acutus**

**Grouse locust, *see* Apotettix eurycephalus,
Paratettix cucullatus**

**"Gru-Gru worm," *see* Rhynchophorus
palmarum**

Gruilaria negundella

McMillan & King, Ent. Soc. Ont. R.
60: 28, 1930.

Gryllacris oaxacae

inHebard, Trans. Amer. Ent. Soc. 58:
340-341, 1932.

Gryllidae

iEagen, Nature Mag. 23: 181-182, 1934.

Grylloblatta campodeiformis

biSilvestri, Trans. Amer. Ent. Soc. 57:
291-295, 1931.

biWalker, Ann. Ent. Soc. Amer. 24: 519-
532, 1931.

biWalker, Ann. Ent. Soc. Amer. 26: 309-
344, 1933.

Grylloblatta campodeiformis occidentalis

iBeamer, Ann. Ent. Soc. Amer. 26: 234-
237, 1933.

Grylloblattidae—Affinities

bCrampton, J. N.Y. Ent. Soc. 41: 127-
166, 1933.

Gryllotalpa africana

bClausen, USDA C. 168: 35, 1931.

Holloway, Facts about Sugar 26: 447,
1931.

Pemberton, Facts about Sugar 27: 485,
1932.

Hawaiian Ent. Soc. P. 7: 337, 1931.

Gryllotalpa africana—Parasites

Pemberton, Assoc. Hawaiian Sugar
Tech. R. 11: 49, 1932.

Gryllotalpa gryllotalpa—Parasites

biGeiman, Trans. Amer. Micros. Soc. 51:
219-224, 1932.

Gryllotalpa sp.

biMex. Agr. & Fomento. Principales
Plagas: 164-165, 1930.

Gryllus assimilis F. (Field cricket)*

Buckell, B.C. Ent. Soc. P. 27: 50, 1930.

Ciddle, Can. Dept. Agr. B. n.s. 143:
11, 1931.

iFolsom, J. Ec. Ent. 24: 807-815, 1931;
27: 744-745, 1934.

- Knowlton & Janes, Utah Acad. Sci. P. 9: 108, 1932.
 Lockwood, Cal. Agr. Mo. B. 18: 763-764, 1929; B. 22: 280, 1933.
 Munro, N.Dak. B. 256: 37-38, 1932.
 biMunro & Carruth, J. Ec. Ent. 25: 896-902, 1932.
 iMunro & Riddle, N.Dak. C. 42 rev.: 30-31, 1933.
 iSnodgrass, Smithson. Sci. Ser. 5: 60-63, 1930.
 biSnodgrass, Smithson. Misc. Coll. 89(8): 52-71, 1933.
 biSpann, Kans. Acad. Sci. Trans. 37: 299-341, 1934.
 Strickland, Alberta Ext. B. 24: 18-19, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 64, 1933; R. 65: 114, 1934.
 iWalden, Conn. B. 360: 477-478, 1934.
 iWatson, Fla. B. 232: 91-92, 1931.
 Miss. St. Pl. Bd. Quar. B. 10(3): 13-14, 1930.
- Gryllus assimilis—Sonification**
 iLutz, Amer. Mus. Nov. 550: 4-21, '32.
 iLutz & Hicks, Amer. Mus. Nov. 420, 1930, 14p.
 biPickwell, Cal. St. Teach. Coll. Insects: 124-127, 1933.
 Sweet, Cath. World 131: 717, 1930.
- Gryllus assimilis pennsylvanicus**
 biTauber & Yeager, Iowa St. Coll. J. Sci. 9: 13-24, 1934.
- Gryllus domesticus L. (House cricket)***
 Headlee, N.J. C. 328, 1934, 4p.
 Lutz, Guide to Nature 23: 40, 1931.
 Lutz, Amer. Mus. Nov. 550: 2-4, 1932.
 iMacDaniel, Mich. Quar. B. 17: 70-71, 1934.
- Gryllus oceanicus**
 Holloway, Facts about Sugar 27: 355-356, 1932.
- Guava insects**
 iWolcott, Ec. Ent. of W.I.: 516-519, '33.
- Guayaquila mirucornua**
 nGoding, Amer. Mus. Nov. 421: 7-8, '30.
- *Gulf wireworm, see Heteroderes laurentii**
- Gulls and grasshoppers, see Grasshoppers and gulls**
- Gymnandrosoma desotatum**
 iHeinrich, PUSNM 79(13): 6, 1931.
- Gymnandrosoma pithecolobiae**
 inBusck, Ent. Amer. n.s. 13: 156-157, 1933.
- Gymnandrosoma trachycerus**
 inForbes, P.R. Dept. Agr. J. 15: 349-350, 1931.
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 349-350, 1931.
- Gymnochara maculalis 101, orbitalis 101-102, pulchellus 100-101, tibialis 102-103**
 nBanks, Amer. Acad. Arts and Sci. P. 69(1): 1934.
- Gymnodia**
 Hockett, J. N.Y. Ent. Soc. 40: 52-56, 1932.
- Gymnonychus californicus**
 iNewcomer, USDA C. 270: 42-43, 1933.
- Gymnopa paucula**
 nCresson, Trans. Amer. Ent. Soc. 60: 199-200, 1934.
- Gymnopa sp.**
 Bryan, Hawaiian Ent. Soc. P. 8: 230, 1933.
- Gymnopternus vanduzeei**
 nCurran, Can. Ent. 62: 287, 1930.
- Gymnosoma occidua**
 Aldrich, PUSNM 80(10): 2, 1931.
- Gynacantha helenga**
 inWilliamson & Williamson, Mich. Univ. Mus. Zool. Occ. Pap. 218: 1-9, 1930.
- Gynacantha nervosa**
 bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 255-256, 1931.
- Gynandrophthalma**
 Schaeffer, J. N.Y. Ent. Soc. 41: 319-320, 1933.
- Gynoplistia (Gynoplistia) biarmata, variata**
 nAlexander, Ann. Ent. Soc. Amer. 24: 628-630, 1931.
- Gypsona octolineata**
 biDobrosky, Boyce Thompson Inst. Contrib. 3: 59-83, 1931.
 Schrivener, J. Wash. Acad. Sci. 21: 222-223, 1931.
- Gyponyx hintzi, pertenuis**
 Wolcott, Psyche 39: 41-43, 1932.
- *Gypsy moth, see Porthetria dispar (L.)**
- Gyrinidae**
 biButcher, Ann. Ent. Soc. Amer. 26: 76-85, 1933.

Gyrinidae *Cont'd*

biGeiman, Amer. Micros. Soc. Trans. 51:
219-224, 1932.

Ochs, J. N.Y. Ent. Soc. 38: 135-138,
1930.

Ochs, Ent. News 42: 55, 1931.

Gyrinus instabilis

nFall, Pan-Pac. Ent. 7: 155-156, 1931.

Gyrinus spp.

Butcher, J. Kans. Ent. Soc. 3: 64-66,
1930.

Gyrovaga

nTowsend, J. N.Y. Ent. Soc. 40: 473,
1932.

Haanina

nHebard, P. Acad. Nat. Sci. Phila. 81:
89-90, 1929.

Habrobracon, *see* **Microbracon****Habrocytus**

nChamberlin, P. Ent. Soc. Wash. 35:
106, 1933.

Habrocytus cerealellae

Fulton, N.C. R. 55: 42, 1932.

biFulton, Ann. Ent. Soc. Amer. 26: 536-
553, 1933.

biNoble, Cal. Univ. Pub. Ent. 5: 311-
354, 1932.

Habrocytus lividus

nGahan, J. Wash. Acad. Sci. 21: 37-38,
1931.

Habrocytus piercei

biList, Col. B. 385: 59-61, 1932.

Habrolepis dalmanni

Friend, Conn. B. 315: 617, 1930.

Habrolepis sp.

Fullaway, Hawaiian Ent. Soc. P. 8:
365, 1934.

Habrophlebia pusilla

nTraver, Elisha Mitchell Sci. Soc. J.
47(1): 118-120, 1932.

Habrophlebiodes americana

Traver, Elisha Mitchell Sci. Soc. J.
47(1): 117-118, 1932.

Habropoda tainanicola

Cockerell, Amer. Mus. Nov. 480; 7, '31.

Hadena arctica

iHerrick, N.Y. Dept. Agr. & Markets
B. 240: 61-62, 1930.

Hadeninae—**Genotypes**

Tietz, J. N.Y. Ent. Soc. 41: 441-456,
1933.

Hadenococcus subterraneus (Cave cricket)

Giovannoli, Bailey, Cave Life of Ky.:
224-225, 1933.

Haemagogus janthinomys

bKumm & Frobisher, Amer. J. Trop.
Med. 12: 352-353, 1932.

Haemagogus lucifer

Dunn, Psyche 41: 171, 1934.

Haemaphysalis cinnabarina Koch (Bird tick)*

Gibson, Sci. Agr. 11: 211, 1930.

Parker, Philip, & Davis, U.S. Pub.
Health R. 47: 479-487, 1932.

Haemaphysalis cooleyi

Cooley, Mont. St. Bd. Ent. Bien. R. 8:
23, 1930.

Haemaphysalis kochi

Dunn, J. Parasit. 20: 312, 1934.

Haemaphysalis leachii

Bequaert, Amer. Mus. Nov. 426: 10-
11, 1930.

Haemaphysalis leporis-palustris Pack. (Rabbit tick)*

iBishopp, Smithson. R. f. 1933: 400.

biCooley, Mont. B. 268: 17-19, 1932.

Parker, Pac. Sci. Cong. 5, P. 5: 3369,
1934.

Parker & Bruce, U.S. Pub. Health R.
46: 45-46, 1931.

biParker, Philip & Jellison, Amer. J.
Trop. Med. 13: 343-379, 1933.

Spencer, U.S. Pub. Health R. 46: 2100-
2101, 1931.

Stoddard, Bobwhite Quail: 319, 1931.

Haematobia alcis

Murie, Mich. Univ. Mus. Zool. Misc.
Pub. 25: 18, 1934.

Haematobia irritans L. (Horn fly)*

biHerms, Wheeler & Herms, J. Ec. Ent.
27: 989-990, 1934.

Melvin & Beck, J. Ec. Ent. 24: 330-
331, 1931.

Pemberton, Hawaiian Sugar Pl. Assoc.
Exp. Sta. R. f. 1934: 26.

Richardson, Iowa Agr. YB 32: 31-32,
1931.

Snodgrass, Smithson. Sci. Ser. 5: 348,
1930.

Swezey, Hawaiian Ent. Soc. P. 7: 360,
1931.

Van Volkenberg, P.R. Mayaguez R. f.
1931: 25, 1932.

- Haematobia serrata**
 Caler, J. Kans. Ent. Soc. 4: 88-93, '31.
 Mex. Agr. & Fomento. Principales
 Plagas: 243, 1930.
- Haematopinus**
 biFerris, Stanford Univ. Pub. Univ. Ser.
 Biol. Sci. 2: 415-470, 1933.
- Haematopinus aperis**
 inFerris, Stanford Univ. Pub. Univ. Ser.
 Biol. Sci. 2: 431-432, 1933.
- Haematopinus asini (L.) (Sucking horse louse)***
 Caler, J. Kans. Ent. Soc. 4: 94-95, '31.
 iCameron, Can. Dept. Agr. B. 152: 14-
 15, 1931.
 iKelsner, Vet. Med. 25: 320-321, 1930.
 iSchwartz, USDA C. 148: 34, 1930.
- Haematopinus eurysternus Nitz. (Short-nosed cattle louse)***
 iPettit, Mich. R. 46: 234, 1933.
 iSmith, J. Kans. Ent. Soc. 5: 74-75, '32.
 Thompson, Ent. Soc. Ont. R. 63: 54-
 56, 1932.
- Haematopinus ovis**
 i[Stevenson] Common Animal Parasites
 Inj. to Sheep in E. Can.: 39, 1931.
- Haematopinus suis (L.) (Hog louse)***
 Caler, J. Kans. Ent. Soc. 4: 83-84, '31.
 Ewing, Helminth. Soc. Wash. P. 1: 65-
 66, 1934.
 iImes, La Hacienda, 25: 78-81, 1930.
 Mohler, USDA BAI R. f. 1934: 52.
- Haematopinus tuberculatus**
 biEwing, Ann. Ent. Soc. Amer. 25: 664-
 665, 1932.
- Haematopinus vituli**
 Thompson, Ent. Soc. Ont. R. 63: 54-
 56, 1932.
- Haematopota and disease—Surra**
 Krijgsman, Pac. Sci. Cong. 5, P. 5:
 3357-3358, 1934.
- Haematopota ciliatipes**
 nBequaert, Harv. Univ. Inst. Trop.
 Biol. Contrib. 5: 956-957, 1930.
- Haematopota partifascia**
 nBequaert, Harv. Univ. Inst. Trop. Biol.
 Contrib. 5: 962-963, 1930.
- Haematopota tabanula**
 nBequaert, Harv. Univ. Inst. Trop. Biol.
 Contrib. 5: 966, 1930.
- Haematosiphon inodorus (Poultry bug)***
 Buckley, USDA FB. 1652: 62, 1931.
- Buckley & Bunyea, USDA FB 1652
 rev.: 66-67, 1933.
- Haemodipsus ventricosus Denny (Rabbit louse)***
 iSchwartz & Shook, USDA FB 1568
 rev.: 9-10, 1931.
 Vorhies & Taylor, Ariz. TB 49: 550, '33.
- Haemogamasus, H. sternalis**
 inEwing, PUSNM 82(30): 2-3, 1933.
- Haemopsis marmoratis—Behavior**
 Miller, Ohio St. Univ. Abst. Drs. Dis-
 serta. 9: 201-207, 1932.
- Haemorrhagia diffinis**
 Britton, Conn. B. 344: 161, 1933.
 iMcDaniel, Mich. Sp. B. 243: 50, 1933.
- Haemorrhagia thysbe**
 iMcDaniel, Mich. Sp. B. 243: 50, 1933.
 iWeed, Insect Ways: 123-125, 1930.
- *Hag moth, see Phobetreron pitheciun**
- Hageniella pusilla**
 inBanks, Psyche. 38: 56, 1931.
- Hageniola, H. solitaria**
 inBanks, Hawaiian Ent. Soc. P. 7: 438,
 1931.
- Hagenius brevistylus**
 Byers, Univ. Fla. Pub. Biol. Sci. Ser.
 1(1): 248-249, 1931.
- Hahniidae**
 biGertsch, Amer. Mus. Nov. 712: 1934,
 32p.
- *Hairy chinch bug, see Blissus hirtus**
- Hairy sand ant, Red and black, see Dasy-
 mutilla occidentalis**
- *Hairy spider beetle, see Ptinus villiger**
- Hairy-vetch bruchid, see Bruchus brachia-
 lis**
- Haitian coffee tree cricket, see Chremon
 repentinus**
- Halictus abanci**
 nCrawford, P. Ent. Soc. Wash. 34: 71,
 1932.
- Halictus athabascensis**
 nSandhouse, P. Ent. Soc. Wash. 35: 78-
 80, 1933.
- Halictus brimleyi, brycinci**
 nCrawford, P. Ent. Soc. Wash. 34: 70-
 72, 1932.
- Halictus (Evylaeus) darwiniellus**
 nCockerell, J. N.Y. Ent. Soc. 40: 519-
 520, 1932.
- Halictus (Evylaeus) grindelliae**
 nCockerell, Ent. News, 45: 29-30, 1934.

- Halictus hunteri***
nCrawford, P. Ent. Soc. Wash. 34: 72-73, 1932.
- Halictus (Chloralictus) jameaseae***
nCockerell, Ann. Ent. Soc. Amer. 26: 41, 1933.
- Halictus macrurus***
nCockerell, Amer. Mus. Nov. 466: 15, 1931.
- Halictus (Seladonia) ororyctes***
nCockerell, Ann. Ent. Soc. Amer. 26: 40, 1933.
- Halictus percrassiceps***
nCockerell, Amer. Mus. Nov. 466: 14, 1931.
- Halictus raleighensis, ralenci***
nCrawford, P. Ent. Soc. Wash. 34: 69-70, 73-74, 1932.
- Halictus repertus***
Cockerell, J. N.Y. Ent. Soc. 40: 520-521, 1932.
- Halictus simplicior***
nCockerell, Amer. Mus. Nov. 466: 16, 1931.
- Halictus smilacinae***
Brittain, Que. Soc. Prot. Pl. R. 25/26: 34-37, 1934.
- Halictus speculicaudus***
nCockerell, Amer. Mus. Nov. 466: 16, '31.
- Halictus spp.***
Rau, Acad. Sci. St. Louis Trans. 28: 223, 1934.
Sandhouse, P. Ent. Soc. Wash. 35: 78-83, 1933.
- Halictus subcarus***
nCockerell, Psyche 37: 152-153, 1930.
- Halictus (Chloralictus) viridellus***
nCockerell, Amer. Mus. Nov. 466: 14-15, 1931.
- Halictus williamsi***
nCockerell, Psyche 37: 153-154, 1930.
- Halimococcus* 79-83, borassi 102-106, lampas 83-91, thebaicae 91-101.**
bi Stickney, USDA TB 404, 1934.
- Halipilidae***
biHickman, Mich. Acad. Sci. Pap. 11: 399-424, 1930.
bHickman, Ann. Ent. Soc. Amer. 24: 129-142, 1931.
- Haliplus (Liaphlus) apostolicus***
inWallis, Royal Can. Inst. Trans. 41: 46-49, 1933.
- Haliplus canadensis, columbiensis***
inWallis, Royal Can. Inst. Trans. 41: 51-53, 66-68, 1933.
- Haliplus crassus***
nChapin, Wash. Biol. Soc. P. 43: 12, '30.
- Haliplus cribrarius***
biHickman, Mich. Acad. Sci. Pap. 11: 414-418, 1930.
- Haliplus cubensis***
nChapin, Wash. Biol. Soc. P. 43: 10-11, 1930.
- Haliplus distinctus, hoppingi***
inWallis, Royal Can. Inst. Trans. 41: 17-20, 1933.
- Haliplus immaculicollis***
biHickman, Mich. Acad. Sci. Pap. 11: 409-414, 1930.
- Haliplus leechi* 63-66, mutchleri 38-40, ohioensis 27-28.**
inWallis, Royal Can. Inst. Trans. 41: '33.
- Haliplus panamanus, philippinus***
nChapin, Wash. Biol. Soc. P. 43: 9-11, 1930.
- Haliplus salinarius* 56-58, salmo 61-63, spp. 1-76.**
iWallis, Royal Can. Inst. Trans. 41: '33.
- Haliplus triopsis***
biHickman, Mich. Acad. Sci. Pap. 11: 418-421, 1930.
- Haliplus (Liaphlus) unguaris***
inWallis, Royal Can. Inst. Trans. 41: 68-70, 1933.
- Halisidota caryae (Hickory tussock moth)****
iMcDaniel, Mich. Sp. B. 243: 39, 1933.
iQuaintance & Siegler, USDA FB 1270 rev.: 53-54, 1931.
- Halisidota consobrina***
Burke, Nat. Shade Tree Conf. P. 9: 58, 1933.
- Halisidota tessellaris (S. & A.) (Pale tussock moth)****
iMcDaniel, Mich. Sp. B. 243: 39-40, 1933.
- Halls' scale, see *Lepidosaphes halli***
- Halme eburneocinctus***
nGressitt, Pan-Pac. Ent. 9: 168-169, '33.
- Halmopota hutchinsoni***
nCresson, Conn. Acad. Arts & Sci. Mem. 10: 3-4, 1934.
- Halobates sericeus***
iHadden, Hawaiian Ent. Soc. P. 7: 457-459, 1931.

- Haltica**, *see* **Altica**
Haltichella longicornis
 bNettels, J. Ec. Ent. 27: 815-817, 1934.
Halticinae, *see* **Alticinae**
Halticoptera aenea
 bGahan, USDA Misc. Pub. 174: 116-121, 1933.
Halticus citri (Garden flea hopper)*
 Britton, Conn. B. 344: 160-161, 1933.
 Compton, Ill. C. 391: 35, 1932.
 iMcDaniel, Mich. Sp. B. 214: 47-48, 1931.
Hamadryas antiopa, *see* **Aglais antiopa**
Hamamelistes spinosus
 iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 375-376, 1931.
Hamaxia incongrua
 biClausen, Jaynes & Gardner, USDA TB 366: 8-10, 1933.
Hammoderus granulosus
 biMex. Agr. & Fomento. Principales Plagas: 156-157, 1930.
Hamotus (Hamotoides) opimus
 nFletcher, Can. Ent. 64: 34-35, 1932.
Hannemania hirsuta, *penetrans*
 inEwing, PUSNM 80(8): 17-18, 1931.
Hanseniella californica
 inHilton, Ann. Ent. Soc. Amer. 24: 541-542, 1931.
Hanseniella unguiculata
 Holloway, Facts about Sugar 27: 66, 1932.
 Ingram, Sugar B. 12(12): 4, 1934.
Haplidus antennatus 115, **palpalis** 114-115, **testaceus** 114.
 nLinsley, Pan-Pac. Ent. 8: 1932.
Haplogonatopus vitiensis
 Swezey, Hawaiian Ent. Soc. P. 8: 5, 1932.
Haploptilia, *see* **Coleophora**
Haplothrips panamanensis
 nWatson, Fla. Ent. 15: 11-12, 1931.
Haplothrips subtilestissimus
 Ross & Putman, Ent. Soc. Ont. R. 64: 37, 1933.
Haplothrips usitatus
 Illingworth, Hawaiian Ent. Soc. P. 8: 380, 1934.
Haplothrips (Hindsiana) williamsi
 nMoulton, Hawaiian Ent. Soc. P. 8: 502, 1934.
 *Harlequin bug, *see* **Murgantia histrionica**
Harmolita grandis (Wheat straw worm)*
 Grimes, Kans. Bien. R. 7: 102, 1934.
 biKnowlton, J. Ec. Ent. 24: 414-416, '31.
 Knowlton, J. Ec. Ent. 25: 1169-1172, 1932.
 iKnowlton & Janes, Utah B. 243: 4-8, 1933.
 Smith, J. Kans. Ent. Soc. 5: 89, 1932.
Harmolita opuntiae
 nMuesebeck, P. Ent. Soc. Wash. 34: 110-112, 1932.
Harmolita secalis
 Knowlton, J. Ec. Ent. 15: 1171, 1932.
 Knowlton & Janes, Utah B. 243: 10, '33.
Harmolita sp. (Galleta grass gall)
 Jones, J. Ec. Ent. 25: 1241-1242, 1932.
Harmolita spp.
 Jones, J. Ec. Ent. 25: 412, 1932.
 biKnowlton & Janes, Utah B. 243: 1933. 15p.
 Pack, Utah B. 216: 21, 1930.
Harmolita tritici (Wheat jointworm)*
 iKnowlton, J. Ec. Ent. 25: 1169-1172, 1932.
 biKnowlton & Janes, Utah B. 243, 1933. 15p.
 iSanderson, Ins. Pests Farm ed. 3: 150-152, 1931.
 Smith, J. Kans. Ent. Soc. 5: 89, 1932.
Harmolita vaginicola
 Knowlton & Janes, Utah B. 243: 9, '33.
Harmolita websteri
 Knowlton, J. Ec. Ent. 25: 1171-1172, 1932.
 Knowlton & Janes, Utah B. 243: 9-10, 1933.
Harmologa fumiferana, *see* **Cacoecia fumiferana**
Harmonia axyridis
 iChia-Chan Tan & Ju-Chi Li, Amer. Nat. 68: 252-265, 1934.
 biDobzhansky, Amer. Nat. 67: 99-100, 1933.
Harpalus caliginosus
 Beard, Amer. Boys' Bk. Bugs: 219-220, 1932.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 4, 1934.
 M[acheux] Nat. Can. 59: 206, 1932.
Harpalus erraticus
 Bryson, J. Kans. Ent. Soc. 4: 20-21, 1931.

Harpalus pennsylvanicus—Group

Hatch, Bklyn. Ent. Soc. B. 27: 173-176, 1932.

Harpalus spp.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 147, 1930.

Fattig, Can. Ent. 65: 190-191, 1933.

Harris' Checker-spot, see *Cinclidia harrisii*
Harrisina americana (Guer.) (Grape leaf skeletonizer)*

Lord, Fla. Dept. Agr. B. n.s. 63: 16-17.
Watson, Fla. Grow. 40(11): 23, 1932.

Harrisina unipuncta see *Cirphis unipuncta***Harroweria gloriosa**

Hebard, Ent. News 45: 13-14, 1934.
Swezey, Hawaiian Ent. Soc. P. 8: 529-530, 1934.

Hartigia cressoni (Raspberry horn-tail)

Essig & Hoskins, Cal. Ext. C. 87: 32, 1934.

iSmith, Cal. B. 505: 37, 1931.

Harvest bug, see *Leptus autumnalis***Harvester ant, see *Pheidole megacephala*****Hausermann's rose beetle, see *Philodactyla exotica*****Hawk moths, see *Sphingidae*****Hay insects**

Hawley Cent. West. Shippers Advisory Bd. P. 20: 60-61, 1930.

Head louse, see *Pediculus humanus humanus* L.*Hebata—Subgenus—Key**

bDeLong, USDA TB 231: 32, 1931.

Hebecephalus neomexicanus

inTuthill, J. Kans. Ent. Soc. 3: 44, 1930.

Hebecephalus scriptanus

inOman, P. Ent. Soc. Wash. 36: 77, 1934.

Hebecephalus tener

inBeamer & Tuthill, J. Kans. Ent. Soc. 7: 16-17, 1934.

Hecamede albicans

Bryan, Hawaiian Ent. Soc. P. 8: 230, 1933.

Hecatoepalpus

nTownsend, J. N.Y. Ent. Soc. 40: 467-468, 1932.

Hectopsylla sp.

iEskey, U.S. Pub. Health R. 47: 2197-2200, 1932.

Hectopsylla suarez

Eskey, U.S. Pub. Health R. 45: 2094-2095, 1930.

Hedia ochroleucana

McDaniel, Mich. Sp. B. 214: 76, 1931.

Heel fly, see *Hypoderma lineata***Hellipus lauri**

Hyde, Cit. Ind. 13(8): 19, 23, 1932.
ibMex. Agr. & Fomento. Principales Plagas: 119, 1930.

Helconidea necydalis

nCushman PUSNM 79(14): 10-11, 1932.

Heliastus californicus, parviceps

Hebard, Trans. Amer. Ent. Soc. 57: 120-122, 1931.

Helichus columbianus

nBrown, Can. Ent. 63: 118-119, 1931.

Helichus puncticollis

Hinton, Can. Ent. 66: 72, 1934.

Helicis—Feeding habits

Graenicher, Ent. News 42: 229, 1931.

Heliconius charithonia

Callins, Ent. News 43: 225, 1932.
Watson, Fla. Ent. 15: 50, 1931.

Heligmoneura medianus

nBromley, Bklyn. Ent. Soc. B. 25: 290, 1930.

Helina duplicata

Spencer, B. C. Ent. Soc. P. 30: 22, '33.

Heliodines—Key

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 103-104, 1930.

Heliothis chloropha

Lemmer, Bklyn. Ent. Soc. B. 27: 177, 1932.

Heliothis dipsacea

Benjamin, Psyche 39: 58, 1932.

†*Heliothis obsoleta* (F.) (Bollworm)*
(Corn ear worm)*

Alden, Ga. St. Bd. Ent. B. 73: 24, 1930.
iArant, Ala. C. 65: 5-6, 1934.
Back, USDA FB 1029 rev.: 17-18, '31.
Beattie, USDA FB 1431 rev.: 21, 1930;
1338 rev.: 25-26, 1931.

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 46, 1931.

iBritton, Conn. Veg. Grow. Assoc. R. 17: 50-51, 1930; R. 18: 39, 1931; R. 21: 72-74, 1934.

iBritton, Conn. B. 344: 99, 1933.

Burdette, N.J. St. Hort. Soc. P. f. 1931; 158-162.

iBurdette, Canning Age 15: 399-400, 424, 1934.

- iCaesar, Ont. Dept. Agr. B. 359: 43, '31.
 Call, Kans. Bien. R. 5: 107, 1930.
 Cartwright, S.C. B. 266: 7, 1930; R. 45: 68, 1932.
 Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 35-36, 1930.
 Compton, Ill. C. 391: 18-19, 1932.
 Cooper, Ky. R. 46, Pt. 1: 26-27, 1934.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 91-92, 1933; Ext. B. 278: 74, 1934.
 Davis, Ind. Acad. Sci. P. 40: 310, 1931.
 Davis, Canner 72(14): 20, 1931.
 Davis, Ind. Ext. B. 186: 14, 1932.
 iDitman, J. Ec. Ent. 25: 652-655, 1932.
 biDitman & Cory, Md. B. 328: 443-481, 1931; B. 348: 525-543, 1933.
 biDitman & Cory, J. Ec. Ent. 26: 109-115, 1933.
 Dunn et al., Tex. R. 46: 48, 1934.
 iDustan, Can. Dept. Agr. Ent. B. 32: 55, 1932.
 Ehrhorn, Hawaiian Ent. Soc. P. 7: 389, 1931.
 Fletcher, Tex. R. 46: 47, 1933.
 Fletcher, Gaines & Moreland, Tex. R. 47: 47-48, 1934.
 iFolsom, USDA FB 1688: 6-7, 1932.
 Friend, Conn. Veg. Grow. Assoc. R. 19: 28-29, 1932; R. 20: 68, 1933.
 Fulton, N.C. R. 52: 118, 1929; 54: 107-109, 1931; 55: 73-74, 1932; 56: 36-37, 1933.
 biGaines, J. Ec. Ent. 26: 957-962, 1933.
 iGilbert & Popenoe, USDA FB 1371 rev.: 39, 1934.
 Grimes, Kans. Bien. R. 7: 103-104, '34.
 Harned, USDA YB f. 1933: 127.
 Haseman, J. Ec. Ent. 24: 649-650, '31.
 Hawthorn & Fletcher, P. Amer. Soc. Hort. Sci. 30: 550-553, 1933.
 Headlee, N.J. R. 53/54: 40, 1933.
 Hutchison, Cal. R. f. 1929-1930: 67, 1931; R. f. 1930-31: 72, 1932.
 iKeifer, Cal. Agr. Mo. B. 20: 615-616, 1931.
 King & Loomis, USDA C. 206: 4, 1932.
 iKnowlton, Utah Leaf. 33, 1934. [3p.]
 Liston, Kans. Ent. Com. Bien. R. 13: 9, 1932.
 Lobdell, Fla. R. f. 1933: 170.
 iLockwood, Cal. Agr. Mo. B. 18: 771, 1929.
 Lutken, S.C. Wkly. News Notes 18(50), 1930.
 iMcDaniel, Mich. Sp. B. 214: 80-82, 1931.
 iMcDaniel, Mich. Quar. B. 14: 183-186, 1932.
 Marlatt, USDA Ent. R. f. 1930: 39-40; R. f. 1931: 49; R. f. 1933: 26.
 biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
 Metcalf, N.C. R. 53: 154, 1930.
 biMex. Agr. & Fomento. Principales Plagas: 61-62, 1930.
 Milord, Rev. de Agr. Cuba 12(4): 35-36, 1930.
 Moreland & Bibby, J. Ec. Ent. 24: 1173-1181, 1931.
 iMunro & Riddle, N.Dak. C. 42 rev.: 27-28, 1933.
 Parks, Ohio Veg. Grow. Assoc. P. 17: 50-54, 1932.
 Patterson, Md. R. 45: xvii, 1932.
 iPettit, Mich. Ext. B. 117: 10, 1931.
 iPhillips & Barber, USDA FB 1651, 1931, 18p.
 iPhillips & Barber, Va. Poly TB. 55, 1934, 15p.
 iRuggles, Minn. Hort. 62: 153, 1934.
 iSanderson, Ins. Pests Farm, ed. 3: 104-109, 270-271, 1931.
 Sherman, S.C. R. 43: 73-74, 1930; 45: 78-79, 1932.
 Skinner, Ind. R. 46: 27, 1933.
 iSmith, J. Kans. Ent. Soc. 5: 77-78, '32.
 iSnapp, USDA FB 1557 rev.: 31-32, '31.
 Strong, USDA PQCA R. f. 1930: 39-40.
 Swezey, Hawaiian Ent. Soc. P. 7: 369, 1931; 8: 274, 1933.
 Taubenhaus & Christenson, Assoc. South. Agr. Workers P. 35: 344-345, 1934.
 Thomas, Tex. R. 43: 38-39, 1930.
 bThomas, J. Ec. Ent. 24: 815-821, 1931.
 Thomas, So. Agr. Workers Assoc. P. 32: 220, 1931.
 Thomas & Mills, Tex. R. 46: 47, 1933.
 Thomas et al., Tex. R. 44: 37, 1931; R. 45: 37-38, 1932.

Heliothis obsoleta* (F.) *Cont'd

Twinn, Ent. Soc. Ont. R. 64: 66-67, 1933; 65: 116, 1934.

Wallace, Ind. Dept. Conserv. R. 13: 60, 1931.

Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 34.

Wallace et al, Ind. Dept. Conserv. R. 14: 55, 1932.

Watson, Fla. B. 232: 50-52, 96-99, '31.

Watson, Fla. Grow. 41(2): 23, 1933.

Webster, Wash. Ext. B. 186: 3, 1934.

iWilkinson, Conn. (Storrs) Ext. B. 196: 18, 1933.

Williams, Hawaiian Ent. Soc. P. 8: 237, 1933.

Williams, Ohio B. 532: 43-44, 1934.

Wolcott, Ec. Ent. of W. I.: 296, 1933.

Woodward & Waller, N.J. Agr. Expt. St. 1880-1930: 236-237, 1932.

***Heliothis obsoleta*—Cost of control**

iBurdette, Canning Age 15: 399, 400, 424, 1934.

***Heliothis obsoleta*—Hibernation**

Ditman, J. Ec. Ent. 25: 413, 1932.

***Heliothis obsoleta*—Husk protection**

iPhillips & Barber, Va. Poly TB 43, 1931, 24p.

***Heliothis obsoleta*—Arsenate substitute**

Headlee, Amer. Cranb. Grow. Assoc. P. 62: 19, 1931.

***Heliothis obsoleta*—Insecticides**

Lutken, S.C. Wkly. News Notes 19(51), 1931.

Roney, Tex. R. 47: 51, 1934.

***Heliothis obsoleta*—Light, Effect**

biDitman & Cory, Md. B. 348: 531-534, 1934.

***Heliothis obsoleta*—Migration and population**

iGaines, J. Ec. Ent. 25: 769-772, 1932.

Gaines, Tex. R. 46: 47, 1933.

***Heliothis obsoleta*—Oviposition**

iNuttymcombe, J. Ec. Ent. 23: 725-728, 1930.

bPhillips & Barber, Va. TB 47, 1933, 14p.

***Heliothis obsoleta*—Parasites**

Fletcher, J. Ec. Ent. 26: 978-982, 1933.

Hinds, Sugar B. 9(17): 1-2, 1931.

Mumford, Ill. R. 45: 140-141, 1932.

bWinburn & Painter, J. Kans. Ent. Soc. 5: 1-28, 1932.

***Heliothis obsoleta*—Repellents**

biDitman & Cory, Md. B. 348: 538-539, 1933.

***Heliothis obsoleta*—Sprays**

Burdette, J. Ec. Ent. 27: 213-217, '34.

***Heliothis obsoleta*—Timing harvest**

Mumford, Ill. R. 45: 140-141, 1932.

***Heliothis obsoleta*—Traps—Light**

Garcia, N.Mex. R. 41: 62-63, 1931.

Heliothis phloxiphagus

Benjamin, Psyche 39: 58, 1932.

***Heliothis* sp.**

Nolla, P.R. Rev. de Agr. 24: 93, 1930.

Heliothis virescens* (F.) (Tobacco budworm)

Barber, J. Ec. Ent. 26: 1175, 1933.

Bruner, Rev. de Agr. Cuba 14(15/16): 93, 1933; (18): 51, 1933.

Lacroix, Conn. B. 350: 491-493, 1932.

biMex. Agr. & Fomento. Principales Plagas: 152, 1930.

Purdum, South. Cult. 89(1): 10, 1931.

iSanderson, Ins. Pests Farm, ed. 3: 281-282, 1931.

Stoutamire, Fla. Dept. Agr. B. 40, n.s.: 39, 1930.

Williamson, S.C. Ext. C. 118: 6, 1932.

Heliothis fasciatus* (Bean thrips)

biBailey, Hilgardia 7: 468-522, 1933.

Hutchison, Cal. R. f. 1929-1930: 66-67, 1931; R. f. 1930-31: 70, 1932.

Lockwood, Cal. Agr. Mo. B. 18: 765-766, 1929.

biLockwood, Cal. Agr. Mo. B. 22: 323, 336, 1933.

Moulton, J. Ec. Ent. 24: 1033, 1931.

Moulton, Cal. Agr. Mo. B. 20: 754-755, 1932.

Pack & Smith, Utah B. 216: 27-28, '30.

bQuayle, Cal. B. 542: 24, 1932.

bSmith & Hansen, Cal. B. 506: 35, 1931.

Stokes, Cal. Agr. Mo. B. 20: 200-201, 1931.

***Heliothis fasciatus*—Parasites**

Bailey, Hilgardia 7: 498-503, 1933.

Fullaway, Hawaiian For. & Agr. 28: 113-114, 1931.

***Heliothis fasciatus*—Quarantine**

iWoglum, J. Ec. Ent. 24: 1013-1018, 1931.

Heliothrips fasciatus and temperature

Bailey, Hilgardia 7: 503-517, 1933.

Heliothrips femoralis

bBuchanan, J. Ec. Ent. 25: 49-53, 1932.

McDaniel, Mich. Sp. B. 214: 44, 1931.

Heliothrips haemorrhoidalis (Greenhouse thrips)*

Bailey, Ent. News 44: 14-15, 1933.

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 31-32, 1931.

iCompton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 46-49, 1930.

iHamilton, N.J. Gard. 2: 19-22, 1931.

iHaseman & Jones, Mo. B. 342: 21-22, 1934.

biLockwood, Cal. Agr. Missouri B. 22: 336, 343, 1933.

McDaniel, Mich. Sp. B. 214: 43, 1931.

McKenzie, Cal. Avocado Assoc. YB f. 1933: 36.

McLean, Cal. Avocado Assoc. YB f. 1931: 71.

Moulton, J. Ec. Ent. 24: 1032-1033, 1931.

Muir, Hawaiian Ent. Soc. P. 7: 482, 1931.

Quayle, Cal. Avocado Assoc. YB f. 1932: 39.

bQuayle, Cal. B. 542: 24, 1932.

Turner & Plumb, Conn. B. 338: 595-596, 1932.

Heliothrips haemorrhoidalis—Parasites

bPemberton, Hawaiian Ent. Soc. P. 7: 481-482, 1931.

Heliothrips rubrocinctus, see Selenothrips rubrocinctus**Heliothrips russeli**

Bailey, Hilgardia 7: 498-503, 1933.

Heliothrips sylvanus

inFaure, Bklyn. Ent. Soc. B. 28: 1-3, '33.

Heliozela—Key

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 136, 1930.

Heliria anofiava, see Atypa gibba**Heliria cristata**

iBall, Ent. Amer. n.s. 12: 19-20, 1931.

Heliria pulchra, see Telamonanthe rileyi**Heliria rubidella**

bYothers, USDA TB 402: 34-35, 1934.

Heliria scalaris, 29, sinuata 23-24.

iBall, Ent. Amer. n.s. 12: 1931.

Helix aspersa

biBasinger, Cal. B. 515, 1931, 22p.

Helix pisana (White snail)

Mackie, Cal. Agr. Mo. B. 23: 399-400, 1934.

Ryan, Los Angeles Co. Com. Agr. R. f. 1932: 8.

Helix pisana—Quarantine

Fleury, Cal. Agr. Mo. B. 23: 485-486, 1934.

J. Ec. Ent. 27: 728-729, 1934.

Hellgrammite, see Corydalis cornutus*Hellula undalis (F.) (Cabbage webworm)***

biDeLong, Ohio J. Sci. 34: 196, 1934.

Robinson, Ala. R. 42: 47-48, 1931; R. 43: 22, 1932; R. 44: 28, 1933.

Schmidt, Hawaiian Ent. Soc. P. 8: 233, 1933.

Skinner & Reed, Ind. R. 45: 35, 1932.

Miss. St. Pl. Bd. Quar. B. 10(3): 14, 1930.

Helmidæ

Musgrave, P. Ent. Soc. Wash. 34: 78-81, 1932; 35: 54-57, 1933.

Helmis arizonica

nBrown, Can. Ent. 62: 90-91, 1930.

Helmis dietrichi

inMusgrave, P. Ent. Soc. Wash. 35: 54-55, 1933.

Helmis divergens

Lutz, Amer. Mus. Nov. 498: 8, 1931.

Helmis pusilla lödingi

nMusgrave, P. Ent. Soc. Wash. 35: 56-57, 1933.

Helmis solutus

nBrown, Can. Ent. 65: 46-47, 1933.

Helomyzidae

Curran, BAMNH 61: 83-84, 1931.

Helonica, H. excelsa

inBall, Ent. Amer. n.s. 12: 15-17, 1931.

Helops crockeri

nBlaisdell, Pan-Pac. Ent. 9: 89-90, 1933.

Helops fresnoensis

nBlaisdell, Pan-Pac. Ent. 8: 44-46, '31.

Helorimorpha enderleini

nMuesebeck, PUSNM 79(16): 13, 1931.

Hemadas nubilipennis (Blueberry stem gall)

biMcAlister & Anderson, J. Ec. Ent. 25: 1164-1169, 1932.

Hemaris diffinis, see Haemorrhagia diffinis

Hemerobius—Key

Smith, J. Kans. Ent. Soc. 7: 128-130, 1934.

Hemerobius cubanus

nBanks, Psyche 37: 187-188, 1930.

Hemerobius pacificus

biQuayle, Cal. B. 542: 15-16, 1932.

Hemerocampa leucostigma (White-marked tussock moth)*

Balch, For. Chron. 7: 64-65, 1931.

iBritton, Conn. B. 344: 118-119, 1933.

iCaesar, Ont. B. 356: 42-43, 1930.

iChambers & Thompson, Wis. Dept.

Agr. B. 123: 36-38, 1931; B. 145: 45-46, 1933.

iDavis, Ind. Ext. B. 168: 9-10, 1930.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 14-15, 1934.

Goucher, N.S. Dept. Agr. R. f. 1930: 91.

ilMcDaniel, Mich. Sp. B. 243: 15-17, 1933.

Maheux, Nat. Can. 57: 241-243, 1930.

Maheux & Petch, Ent. Soc. Ont. R. 60: 15, 1930.

iMusgrave, Purdue Agr. 27: 78, 1933.

iPettit & Hutson, Mich. C.B. 137: 27-29, 1931.

iQuaintance & Siegler, USDA FB 1270 rev.: 51-53, 1931.

Riley & Johannsen, Med. Ent.: 180-181, 1932.

iRoss, Can. Dept. Agr. B. 129: 45, 1930.

iSheaffer, Ind. Dept. Conserv. Div. Ent. Pub. 103: 20-21, 1930.

biSoraci, N.J. Dept. Agr. C. 243: 8-9, 1934.

Wallace et al, Ind. Dept. Conserv. R. 14: 52, 1932.

Hemerocampa pseudotsugata (Douglas fir tussock moth)*

bBalch, J. Ec. Ent. 25: 1143-1148, 1932.

Evenden, Northw. Sci. 4: 54, 1930.

Hemerocampa vetusta (Western tussock moth)*

Burke, Cal. Agr. Mo. B. 21: 359, 1932.

iEssig & Hoskins, Cal. Ext. C. 87: 16, 1934.

biLockwood, Cal. Agr. Mo. B. 22: 331, 1933.

iQuaintance & Siegler, USDA FB 1270 rev.: 53, 1931.

Hemerophila pariana (Apple and thorn skeletonizer)*

bCameron, Que. Soc. f. Prot. Pl. R. 22: 37-43, 1931.

Caesar, Ent. Soc. Ont. R. 60: 140-141, 1930.

Martin, Ont. Dept. Agr. R. f. 1929: 50-51, 1930.

Ross, Can. Dept. Agr. B. 129: 43, 1930.

Hemerophila pariana—Hibernation

Caesar, Ent. Soc. Ont. R. 62: 48-49, 1932.

Hemiargus gyas

iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 139-140, 1934.

Hemiblabera tenebricosa

Caudell, Ent. News 42: 204, 1931.

Hemiceras spp.—Shade trees

iHoffmann, Mex. Univ. Nac. Inst. Biol. Anal. 2: 151-155, 1931.

Hemichionaspis aspidistrae (Sign.) (Fern scale)*

McDaniel, Mich. Sp. B. 214: 62, 1931.

biWerner, Mich. Acad. Sci. Pap. 13: 517-540, 1931.

Hemichionaspis minor

Wolcott, J. Ec. Ent. 24: 133-134, 1931.

Hemichroa crocea

nRohwer & Middleton, P. Ent. Soc. Wash. 34: 97-98, 1932.

Ross, Can. Ent. 64: 247-248, 1932.

Hemichroa (Hemichroa) washingtonia, see Hemichroa crocea**Hemicordulia assimilis**

iNeedham, Bernice P. Bishop Mus. B. 98: 113-114, 1932.

Hemicrepidius

Van Dyke, Cal. Acad. Sci. P. Ser. 4, 20: 444-445, 1932.

Hemicrepidius memnonius

bRawlins, J. Ec. Ent. 27: 309, 1934.

Hemigraphipora plebeia

bCrumb, Bklyn. Ent. Soc. B. 27: 88-89, 1932.

Hemigymnochaeta apicifera 12, bequaerti 14, clara 11-12, liberia 12-13, mitis 13-14.

nCurran, Amer. Mus. Nov. 506: 1931.

Hemilaelaps

nEwing, PUSNM 82(30): 7, 1933.

Hemilaelaps americanus

inEwing, PUSNM 82(30): 8, 1933.

- Hemilaelaps distinctus**
inEwing, PUSNM 82(30): 8-9, 1933.
- Hemileuca oliviae (Range caterpillar)***
Marlatt, USDA Ent. R. f. 1930: 23; R. f. 1933: 17.
bWildermuth & Frankenfeld, J. Ec. Ent. 26: 794-798, 1933.
- Heminomada**
Rodeck, Amer. Mus. Nov. 496: 8-9, 1931.
- Hemipepsis spp.**
nBanks, Amer. Acad. Arts & Sci. P. 69(1): 7-16, 1934.
- Hemipocus pretiosus**
inBanks, Psyche 37: 184, 1930.
- Hemiptera**
iBarber, P. Ent. Soc. Wash. 34: 65-66, 1932.
iBeard, Amer. Boys' Bk. Bugs: 270-277, 1932.
Brown, Can. Ent. 66: 222-224, 1934.
Downes, B.C. Ent. Soc. P. 31: 46-47, 1934.
Illingworth, Hawaiian Ent. Soc. P. 7: 465-467, 1931.
Knowlton, Can. Ent. 64: 166-167, '32.
biMatheson, Med. Ent.: 127-147, 1932.
Pack & Knowlton, Can. Ent. 62: 248-250, 1930.
biRiley & Johannsen, Med. Ent.: 143-164, 1932.
bUsinger, Can. Ent. 66: 97-100, 1934.
Van Duzee, Cal. Acad. Sci. P. Ser. 4, 21: 26-40, 1933.
Walley, Can. Ent. 64: 152-155, 1932.
- Hemiptera—Early work**
Osborn, Ann. Ent. Soc. Amer. 24: 679-685, 1931.
- Hemiptera—Parental care**
bHussey, Bklyn. Ent. Soc. B. 29: 133-145, 1934.
- Hemisarcophaga coccisugus**
Buckell, B.C. Ent. Soc. P. 28: 14-15, 1931.
Glendenning, B.C. Ent. Soc. P. 28: 29, 1931.
Heriot, B.C. Ent. Soc. P. 28: 8-9, 1931.
- Hemisarcophaga sp.**
Baker, USDA C. 295: 9, 1933.
- *Hemispherical scale, see Saissetia hemisphaerica**
- Hemiteles cheboyganensis** 77-78, **cushmani** 76-77, **hungerfordi** 81-83,
binButcher, Ann. Ent. Soc. Amer. 26: '33.
- Hemiteles pinifoliae**
nCushman PUSNM 82(14): 5-6, 1933.
- Hemithrixion oestriforme**
iGreene, P. Ent. Soc. Wash. 36: 31, '34.
- Hemitrioza washingtonia**
inKlyver, Pan-Pac. Ent. 8: 14-15, 1931.
- Hemiudeopsylla genicularis, see Ceuthophilus (Hemiudeopsylla) genicularis**
- *Hemlock borer, see Melanophila fulvoguttata (Harr.)**
- Hemlock insects**
Clipper, Penn. Dept. For. B. 52: 21-22, 1934.
- *Hemlock looper, see Ellopia fiscellaria**
- *Hemlock sawfly, see Neodiprion tsugae**
- Hemlock spanworm, see Ellopia fiscellaria**
- Henicocephalidae**
biUsinger, Pan-Pac. Ent. 8: 145-156, '32.
- Heodes charlottensis**
McDunnough, Can. Ent. 64: 269, 1932.
- Heodes gorgon**
iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 25-26, 1934.
- Heodes helloides**
iComstock, So. Cal. Acad. Sci. B. 28: 55, 1930.
- Heodes thoë**
iSaunders, N.Y. St. Mus. Hdbk. 13: 194-198, 1932.
- Heptagenia spp.**
nMcDunnough, Can. Ent. 63: 92-93, 1931.
inTraver, Elisha Mitchell Sci. Soc. J. 48: 149-155, 1933.
- Heptageninae**
McDunnough, Can. Ent. 65: 16-24, 33-43, 1933.
Traver, J. N.Y. Ent. Soc. 41: 105-125, 1933.
- Heptagrotis phylophora**
bCrumb, Bklyn. Ent. Soc. B. 27: 85-86, 1932.
Phipps, Maine B. 356: 160-161, 1930.
- Heratemis filosa**
Muesebeck, PUSNM 79(16): 12, 1931.
- Herbarium insects**
Bridwell, J. N.Y. Bot. Gard. 33: 105-109, 1932.

- Herbstiella cockerelli**
 nHicks, Amer. Mus. Nov. 616: 1-2, '33.
- Hercostomus** spp.
 nVan Duzee, Amer. Mus. Nov. 439: 4-5, 1930.
 nVan Duzee, Can. Ent. 62: 85, 1930.
 inVan Duzee, BAMNH 61: 185, 1931.
 inVan Duzee, Amer. Mus. Nov. 599: 16-21, 1933.
- Hercotrips fasciatus**, *see* **Heliothrips fasciatus**
- Hercotrips femoralis**
 Bailey, Ent. News 44: 14, 1933.
- Herculia psammioxantha**
 Gonzalez, Rev. de Agr. Cuba 14(3): 21, 1932.
 Hinds, J. Ec. Ent. 24: 833-835, 1931.
- Heriades (Noteriades) chapini**
 nCockerell, Amer. Mus. Nov. 615: 7-8, 1933.
- Herina thienemanni**
 inCurran, Amer. Mus. Nov. 474: 2, 1931.
- Hermetia illucens**
 Bradley, J. Ec. Ent. 23: 1012-1013, '30.
 Williams, Hawaiian Ent. Soc. P. 8: 232, 1933.
- Herse cingulata** (Sweet potato hornworm)*
 Walker, Commonweal 14: 605-606, '31.
- Hesperapis carinata rodecki**
 nCockerell, Can. Ent. 66: 153, 1934.
- Hesperapis wilmattae**
 nCockerell, Pan-Pac. Ent. 9: 26, 1933.
- Hesperia comma manitoba**
 Dow, Bost. Soc. Nat. Hist. B. 71: 8, 1934.
- Hesperia tessellata**
 Saunders, N.Y. St. Mus. Hdbk 13: 254-256, 1932.
- Hesperia yosemite**
 nLeussler, Ent. News 44: 169-170, 1933.
- Hesperiidae**
 Bell, Ent. News 42: 220-222, 1931; 44: 264-270, 1933.
 Bell, J. N.Y. Ent. Soc. 38: 455-460, 1930; 39: 81-108, 417-490, 523-530, 1931.
 Bell, Amer. Mus. Nov. 555, 1932, 16p.
 Bell, Bklyn. Ent. Soc. B. 27: 131-141, 1932.
 inBell, Amer. Mus. Nov. 745, 1934, 6p.
 Bell, Bklyn. Ent. Soc. B. 29: 89-95, '34.
- bEaton, Ann. Ent. Soc. Amer. 25: 18-29, 1932.
- iWilliams, Trans. Amer. Ent. Soc. 57: 288-290, 305-318, 1931.
- iWilliams & Bell, Trans. Amer. Ent. Soc. 56: 133-138, 1930; 57: 249-287, 1931.
- biWolcott, Ec. Ent. of West Indies: 205-207, 1933.
- Hesperioidea**
 biLindsey, Bell & Williams, Denison Univ. Sci. Lab. J. 26(1): 1-142, 1931.
 Shepard, Ann. Ent. Soc. Amer. 24: 173-176, 1931.
- biWilliams & Bell, Trans. Amer. Ent. Soc. 59: 69-84, 1933; 60: 17-30, 121-132, 265-280, 1934.
- Hesperoctenes fumarius**
 biHagan, J. Morph. 51: 3-117, 1931.
- Hesperoleon minusculus, sackeni**
 bSmith, J. Kans. Ent. Soc. 7: 136, 1934.
- Hesperorhipis, H. albofasciatus**
 nFall, Pan-Pac. Ent. 7: 74-76, 1930.
- Hesperumia sulphuraria**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 31-32, 1934.
- *Hessian fly, see** **Phytophaga destructor**
- Hesticus rufimanus, sanguinifrons**
 Muir, Hawaiian Ent. Soc. P. 7: 480, 1931.
- Heteractes fulgens**
 nFisher, PUSNM 80(22): 48-49, 1932.
- Heteranthidium atoyacae**
 nSchwarz, Amer. Mus. Nov. 624: 10-13, 1933.
- Heterocampa astartoides**
 nBenjamin, Pan-Pac. Ent. 8: 59, 1931.
- Heterocampa belfragei**
 Benjamin, Pan-Pac. Ent. 8: 58, 1931.
- Heterocampa bilineata**
 iPettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 15.
- Heterocampa guttivitta (Walk.) (Saddled prominent)***
 bBritton, Conn. B. 327: 529-532, 1931; B. 338: 595, 1932; B. 344: 84, 1933.
 iMcDaniel, Mich. Sp. B. 243: 20-22, 1933.
- Heterocampa obliqua**
 Benjamin, Pan-Pac. Ent. 8: 59, 1931.
- Heterocampa picta**
 Benjamin, Pan-Pac. Ent. 8: 58, 1931.

- Heterocampa secessionis**
 nBenjamin, Pan-Pac. Ent. 8: 60, 1931.
- Heterocera**
 biForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1): 1930, 171p.; 12(1 sup.): 339-394, 1931.
 iForbes, P.R. Dept. Agr. J. 15: 339-394, 1931.
- Heterocera—Food plants**
 Llewellyn-Jones, B.C. Ent. Soc. P. 31: 30-32, 1934.
- Heterochroa bredowii**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 30: 83-87, 1931.
- Heterocordylus flavipes**
 bClausen, USDA C. 168: 16, 1931.
- Heterocordylus malinus**
 Pettit & Hutson, Mich. C.B. 137: 47-48, 1931.
 Quaintance & Siegler, USDA FB 1666: 69, 1931.
- Heterocrossa atronotata** 12, *olivaceonitens* 7.
 Swezey, Hawaiian Ent. Soc. P. 8: 1932.
- Heterodera marioni** (Root knot nematode)
 Arndt, Amer. Hort. 5(5): 8, 1934.
 iBrown, J. Agr. Res. 47: 883-888, 1933.
 iCondit, Cal. Ext. C. 77: 52-53, 1933.
 Courtney, W. Wash. Hort. Assoc. P. 25: 20, 1934.
 biGodfrey, Soil Science 38: 3-27, 1934.
 biGodfrey & Hoshino, Phytopath. 24: 635-647, 1934.
 biGodfrey, Oliveira & Hoshino, Phytopath. 24: 1332-1346, 1934.
 iHutchison, Cal. R. f. 1932-34: 70-71.
 biTyler, Cal. C. 330, 1933, 34p.
- Heterodera radicola** (Peony root knot nematode)
 Alden, Ga. St. Bd. Ent. B. 71: 18-19, 1930.
 Chambers & Thompson, Wis. Dept. Agr. B. 123: 56, 1931; B. 145: 81-82, 1933.
 biCollins & Hagan, J. Heredity, 23: 503-511, 1932.
 iCook, J. Dept. Agr. P.R. 17(4): 315-319, 1933.
 bGodfrey, Oliveira & Gittel, Soil Science 35: 185-195, 1933.
 biGodfrey & Hoshino, Phytopath. 23: 41-62, 1933.
- biGodfrey & Oliveira, Phytopath. 22: 325-348, 1932.
 biGuba, Mass. B. 292, 1932, 16p.
 Hamilton, N.J. R. 52: 222-226, 1931.
 Heald, Man. of Pl. Dis. ed. 2: 892-899, 1933.
 Hoshino & Godfrey, Pineapple Quar. 1(3): 150-152, 1931.
- biHoshino & Godfrey, Phytopath. 23: 260-270, 1933.
 biJohnson & Godfrey, Indus. & Engin. Chem. 24: 311-313, 1932.
 biJones, J. Agr. Res. 44: 275-285, 1932.
 McDaniel, Mich. Sp. B. 214: 21, 1931.
 Newell et al, Fla. B. 221: 58-59, 1930.
- Heterodera schachtii**
 biBrown, Sci. Agr. 12: 544-552, 1932.
 Stewart & Pittman, Utah C. 93: 24-26, 1931.
 iThorne, USDA FB 1514 rev.: 1932, 20p.
- Heterodera schachtii—Parasites**
 biThorne, J. Agr. Res. 41: 445-466, 1930.
- Heteroderes amplicollis**
 Bruner, Rev. de Agr. Cuba 14(15/16): 93-94, 1933.
- Heteroderes laurentii** (Gulf wireworm)*
 Hyslop, J. Ec. Ent. 27: 561, 1934.
 Marlatt, USDA Ent. R. f. 1933: 18.
- Heteroderes pallidus**
 nFleutiaux, Hawaiian Ent. Soc. P. 8: 478-479, 1934.
- Heterodoxa** spp.
 inMalloch, Bernice P. Bishop Mus. B. 98: 211-215, 1932.
- Heterodoxus longitarsus**
 Ewing, Amer. Nat. 67: 371, 1933.
 Pemberton, Hawaiian Ent. Soc. P. 8: 394, 1934.
 iWard, P. Okla. Acad. Sci. 14: 22-23, 1934.
- Heteronemia oaxacae**
 inHebard, Trans. Amer. Ent. Soc. 58: 217-218, 1932.
- Heteropente, H. planifrons**
 nLoomis, B. Mus. Comp. Zool. 75: 360-391, 1933.
- Heterophylax occidentalis**
 Brues, Psyche 37: 392-394, 1930.
- Heteropoda regia**
 Chapman, Hawaiian Ent. Soc. P. 8: 365, 1934.

Heteropoda regia *Cont'd*

Williams, Hawaiian Ent. Soc. P. 7: 426, 1931.

Heteropoda venatoria

Gudger, Sci. Month. 32: 424, 1931.

Heteropogon lautus

Bromley, Psyche 40: 144, 1933.

Heteropogon rubrifasciatus

nBromley, Ann. Ent. Soc. Amer. 24: 432-433, 1931.

Heteropogon wilcoxi

nJames, Pan-Pac. Ent. 10: 84-85, 1934.

Heterops hispaniolae

nFisher, PUSNM 80(22): 72-73, 1932.

Heteropsylla texana

iKlyver, Pan-Pac. Ent. 7: 140-141, '31.
Klyver, Ent. News 43: 12, 1932.

Heteroptera

bBlatchley, Trans. Amer. Ent. Soc. 60: 1-16, 1934.

biHutchinson, Conn. Acad. Arts & Sci. Mem. 10: 119-150, 1934.

Knowlton, Ent. News 42: 40-43, 68-72, 1931; 44: 261-264, 1933.

Torre-Bueno, Can. Ent. 62: 6-7, 1930; 66: 201-202, 1934.

Torre-Bueno, Bklyn. Ent. Soc. B. 25: 107-108, 1930; B. 26: 135-139, 1931; B. 28: 28-31, 36, 228, 1933; B. 29: 83, 155-157, 1934.

biVan Duzee, Bernice P. Bishop Mus. B. 98: 177-190, 1932.

iWalley, Can. Ent. 62: 75-83, 1930.
Usinger, Pan-Pac. Ent. 9: 171-172, '33.

Heterospilus cephi

Hill & Smith, J. Agr. Res. 43: 597-609, 1931.

Heterostylum spp.

nPainter, J. Kans. Ent. Soc. 3: 1-7, 1930.

Heterotermes aureus

biLight, Cal. Univ. Pub. Ent. 6(5): 109-110, 1933.

iPickens & Light, Kofoid, Termites and Termite Control: 187-189, 1934.

Heterotermes intermedius

biLight, Cal. Univ. Pub. Ent. 6(5): 112-113, 1933.

Heterotermes maculatus

biLight, Cal. Univ. Pub. Ent. 6(5): 110-111, 1933.

Heterotermes malabaricus

inSnyder, PUSNM 82(16): 4-6, 1933.

Heterotermes orthognathus

biLight, Cal. Univ. Pub. Ent. 6(5): 113-114, 1933.

Heterotermes spp.

bLight, Cal. Univ. Pub. Ent. 6(5): 107-114, 1933.

Heterothrips fimbriatus 60-61, **flavicruris**

57-59, **pubescens** 59-60,
nHood, P. Biol. Soc. Wash. 47: 1934.

Hexagenia recurvata

biMorgan & Grierson, Physiol. Zool. 5: 230-245, 1932.

Traver, Ann. Ent. Soc. Amer. 24: 615, 1931.

Hexagenia spp.

biTraver, Ann. Ent. Soc. Amer. 24: 591-620, 1931.

Hexamastix confusa

bTravis, Iowa St. Coll. J. Sci. 6: 319, '32.

Hexameris meridionalis

bClark, USDA TB 455: 23, 1934.

Hexameris microamphidis

Jaynes, USDA TB 363: 21, 1933.

Hexapoda and disease

biMatheson, Med. Ent.: 91-126, 1932.

iRiley & Johannsen, Med. Ent.: 117-124, 1932.

Hexatoma spp.

nAlexander, Ann. Ent. Soc. Amer. 27: 67-68, 1934.

Alexander, P.R. Dept. Agr. J. 16: 370-371, 1932.

Hexerites, H. primalis

inCockerell, Amer. Nat. 67: 480, 1933.

Heza angustata

inBruner, Bklyn. Ent. Soc. B. 26: 124-129, 1931.

Hibiscus insects

Swezey, Hawaiian Ent. Soc. P. 7: 370, 1931.

*Hickory bark beetle, *see* **Scolytus quadrispinosus** Say

Hickory cossid, *see* **Cossula magnifica**

*Hickory horned devil, *see* **Citheronia regalis** (F.)

Hickory insects

Walker, Ga.-Fla. Pecan Grow. Assoc. P. 26: 39-43, 1932.

*Hickory shuck worm, *see* **Laspeyresia caryana** (Fitch)

*Hickory tussock moth, *see* **Halisidota caryae** (Harr.)

*Hide beetle, *see* *Dermestes vulpinus* F.

Hides and skins—Insects

Belavsky & Raschek, Amer. Leath.

Chem. Assoc. J. 26: 57, 1931.

Gansser, Amer. Leath. Chem. Assoc. J.

27: 617, 1932; 29: 590, 1934.

Robertson, Amer. Leath. Chem. Assoc.

J. 29: 128, 1934.

Hierodula patellifera

Swezey, Hawaiian Ent. Soc. P. 8: 212,

1933.

Hilara argyrata, junco

nCurran, BAMNH 61: 44-45, 1931.

Hilarella hilarella

bHicks, Can. Ent. 64: 150, 1932.

Hippelates brasiliensis

nAldrich, P. Ent. Soc. Wash. 33: 71-72, 1931.

Hippelates currani

Aldrich, P. Ent. Soc. Wash. 33: 70, '31.

Hippelates flavipes, *see* *Hippelates pallipes*

Hippelates pallipes

U.S. Nav. Med. B. 28: 795-796, 1930.

Hippelates plebejus

Aldrich, P. Ent. Soc. Wash. 33: 71, '31.

Hippelates pusio

Essig, Hist. of Ent.: 216-218, 1931.

Hall, J. Parasit. 18: 119, 1931.

biHall, Amer. J. Hyg. 16: 854-864, 1932.

biHermes & Burgess, J. Ec. Ent. 23: 600-603, 1930.

Merrill, Cal. R. f. 1928-29: 69, 1930.

iParman, USDA C. 247, 1932, 4p.

Hippelates spp. (Eye gnats)*

Aldrich, P. Ent. Soc. Wash. 33: 69-72, 1931.

Marlatt, USDA Ent. R. f. 1930: 65; R. f. 1931: 73; R. f. 1932: 31; R. f. 1933: 39.

Hippiscus corallipes

iHenderson, Utah C. 96: 26-27, 1931.

Hippobosca camelina

Bequaert, Psyche 37: 325-326, 1930.

Hippobosca capensis

Bequaert, Psyche 37: 313-316, 1930.

Hippobosca equina

Bequaert, Psyche 37: 310-313, 1930.

Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.

Hippobosca fulva

Bequaert, Psyche 37: 316, 1930.

Hippobosca hirsuta

Bequaert, Psyche 37: 322-323, 1930.

Hippobosca maculata

Bequaert, Psyche 37: 317-320, 1930.

Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.

bMartin, J. Amer. Vet. Med. Assoc. 76, 229, 1930.

Hippobosca rufipes

Bequaert, Psyche 37: 320-322, 1930.

Hippobosca spp.—Key

Bequaert, Psyche 37: 307-309, 1930.

Hippobosca struthionis

Bequaert, Psyche 37: 323-325, 1930.

Hippoboscidae

Bequaert, Psyche 37: 303-326, 1930; 38: 186-193, 1931.

Bequaert, Cal. Acad. Sci. P. ser. 4, 21: 131-138, 1933.

Bequaert, Carnegie Inst. Wash. Pub. 431: 566-569, 1933.

iFerris, Can. Ent. 62: 62, 1930.

Hippodamia ambigua

biPratt, Swain & Eldred, J. Ec. Ent. 26: 1033-1041, 1933.

Hippodamia americana

Knowlton, Can. Ent. 65: 243, 1933.

Hippodamia convergens (Convergent lady-beetle)*

Bailey, Hilgardia 7: 500, 1933.

Curtis, Iowa Res. B. 143: 341, 1931.

biDitman & Cory, Md. B. 328: 471, 1931.

Douglass, J. Ec. Ent. 23: 288, 1930.

iDudley, Canner 80(3): 16-17, 1934.

Gill, Ga. St. Ent. B. 77: 42, 1933.

Hamaker, Science, n.s. 80: 248-249, 1934.

Knowlton, Can. Ent. 65: 241-243, '33.

Lopez, Hawaiian Ent. Soc. P. 7: 345, 1931.

iNewcomer, USDA C. 270: 64, 1933.

iOtero, Rev. de Agr. Cuba 15(5): 47, '34.

biPratt, Swain & Eldred, J. Ec. Ent. 26: 1033-1041, 1933.

Sweet, J. Ent. & Zool. 22: 96, 1930.

iWatson & Berger, Fla. Ext. B. 67: 75-76, 1932.

Hippodamia hoppingi

nNunenmacher, Pan-Pac. Ent. 10: 21, 1934.

- Hippodamia lecontei uteana**, *quinqnesignata*
Knowlton, Can. Ent. 65: 243, 1933.
- Hippodamia tredecimpunctata**
Knowlton, Can. Ent. 65: 243, 1933.
- biDobzhansky**, Amer. Nat. 67: 105-106, 1933.
Thomas, J. Ec. Ent. 25: 136, 1932.
- Hippomelas cuneata**, *planicosta*
Smyth, J. Kans. Ent. Soc. 7: 110-111, 1934.
- Hippoeostrus**
nTownsend, J. N.Y. Ent. Soc. 40: 447, '32.
- Hippotion novaebritanniae**, *velox*
nClark, New Eng. Zool. Club P. 13: 41, 45, 1932.
- Hirmoneura texana arizonensis** 180, *exotica* 174-176.
nBequaert, J. N.Y. Ent. Soc. 42: 1934.
- Hirundoecus**
nEwing, PUSNM 77(20): 12-16, 1931.
- Hirundoecus americanus**
nEwing, PUSNM 77(20): 13-14, 1931.
- Hister bimaculatus**
Swezey, Hawaiian Ent. Soc. P. 7: 366, 1931.
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 226, 1933.
Williams, Hawaiian Ent. Soc. P. 8: 390, 1934.
- Hister immunis**
Siepmann, Bklyn. Ent. Soc. B. 27: 202, 1932.
- Hister semisculptus**
Frost, Bklyn. Ent. Soc. B. 28: 159, '33.
- Histeridae**
Ballou, Bklyn. Ent. Soc. B. 29: 173-174, 1934.
Siepmann, Bklyn. Ent. Soc. B. 27: 202, 1932.
- Histiostoma gracilipes**
Mumford, Ill. R. 46: 157, 1933.
Thomas, J. Ec. Ent. 27: 207, 1934.
- Hoary-edged skipper**, *see Achalarus lycidas*
- Hodophylax**, *H. aridus*
nJames, Amer. Mus. Nov. 596: 1-2, '33.
- Hodotermes bauckhorni**
bEmerson, Cal. Univ. Pub. Ent. 6(6): 190-191, 1933.
- Hodotermes tristis**
bEmerson, Cal. Univ. Pub. Ent. 6(6): 190, 1933.
- Hodotermopsis**
iEmerson, Cal. Univ. Pub. Ent. 6: 179-181, 1933.
- *Hog louse**, *see Haematopinus suis* (L.)
- Hog mange mite**, *see Sarcoptes scabiei suis*
- Hogs—Insect food**
Phillips & Dicke, North Virginian 4(2): 41, 1932.
- Holakalumma floridae**
iJacot, Bost. Soc. Nat. Hist. B. 63: 20, 1932.
- Holanaria picescens**
Holloway, Facts about Sugar 27: 355, 1932.
- Holcobius glabricollis**
Swezey, Hawaiian Ent. Soc. P. 8: 2, 1932.
- Holcocephala bullata**
nBromley, Ann. Ent. Soc. Amer. 27: 89, 1934.
- Holcocera iceryaella**
biLockwood, Cal. Agr. Mo. B. 22: 342, 1933.
bQuayle, Cal. B. 542: 62-63, 1932.
Woglum, Cal. Fr. Grow. Exch. B. 7: 33, 1930; B. 11: 23-25, 1934.
- Holcorpa maculosa**
iCarpenter, J. N.Y. Ent. Soc. 39: 405-414, 1931.
- Holepyris hawaiiensis—Sting**
Pemberton, Hawaiian Ent. Soc. P. 8: 125-126, 1932.
- Holly bud moth**, *see Rhopobota naevana ilicifolia*
- Holly insects**
Downes, B.C. Ent. Soc. P. 28: 25-28, 1931.
Meehan, Flor. Exch. 79(18): 35, 1932.
Roaf, Mote & Wieman, Cal. Agr. Mo. B. 23: 324-328, 1934.
- *Holly leaf miner**, *see Phytomyza ilicicola*
- Holly scale**, *see Aspidiotus britannicus*
- Hollyhock insects**
Bailey, Ent. News 44: 15, 1933.
iSmith, J. Ec. Ent. 25: 318-321, 1932.
- Holocerus taurus**
inRehn, P. Acad. Nat. Sci. Phila. 81: 494-497, 1929.
- Holochlora japonica**
Williams, Hawaiian Ent. Soc. P. 8: 25, 1932.

- Holocompsa azteca**
Caudell, Ent. News 42: 204, 1931.
- Holocynips badia, maxima**
nWeld, P. Ent. Soc. Wash. 32: 141, 142, 1930.
- Hololepta lucida**
Siepmann, Bklyn. Ent. Soc. B. 27: 202, 1932.
- Holopogon texanus**
nBromley, Ann. Ent. Soc. Amer. 27: 89-90, 1934.
- Holotrichia spp.**
inChapin, J. Wash. Acad. Sci. 21: 311-314, 1931.
- Homaledra sabalella**
biGray, Ann. Ent. Soc. Amer. 24: 45-107, 1931.
Watson, Fla. Grow. 38(7): 17, 1930;
39(5): 25, 1931; 39(10): 16, 1931;
40(3): 22, 1932.
- Homalodisca triquetra**
biEwing & McGarr, J. Ec. Ent. 26: 943-953, 1933.
iFolsom, USDA FB 1688: 24-25, 1932.
- Homalomyia canicularis**
McDaniel, Mich. C. B. 144: 9, 1932.
- Homalopalpia dalera**
Bruner, Cuba. Santiago de las Vegas C. 75: 11-12, 1931.
- Homalophora cubensis**
nBrues, Psyche 39: 142-143, 1932.
- Homoeosoma amphibola**
Swezey, Hawaiian Ent. Soc. P. 8: 199, 1932.
- Homoeosoma bidensana**
nSwezey, Hawaiian Ent. Soc. P. 8: 299, 1933.
- Homohadena badistriga**
bCrumb, Bklyn. Ent. Soc. B. 27: 83-84, 1932.
Gibson, Can. Dept. Agr. B. n.s. 99 rev.: 11, 1934.
- Homohadena fortis picina**
Chamberlin, Pan-Pac. Ent. 8: 60, 1931.
- Homohexamera**
nTownsend, J. N.Y. Ent. Soc. 42: 247, 1934.
- Homona menciana**
bClausen, USDA C. 168: 78-79, 1931.
- Homoneura abana, sarangana**
inCurran, Amer. Mus. Nov. 474: 5, 6, 1931.
- Homonotus nebulosus** III, **rufipes** 110-111, **tagalicus** 110.
nBanks, Amer. Acad. Arts & Sci. P. 69(1): 1934.
- Homoptera**
Brown, Can. Ent. 66: 224-225, 1934.
Downes, B.C. Ent. Soc. P. 31: 47-48, 1934.
binDozier, Amer. Mus. Nov. 510, 1931, 24p.
Knowlton, Ent. News 42: 40-43, 68-72, 1931.
Lerch, Bklyn. Ent. Soc. B. 28: 76-78, 1933.
Metcalf, N.C. R. 54: 106-107, 1931;
56: 82, 1933.
Whitney, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 92, 1931.
- Homorocoryphus prasinus**
Hebard, Trans. Amer. Ent. Soc. 58: 332, 1932.
- Honey**
Lothrop, USDA YB f. 1931: 301-303.
Md. Ext. C. 89: 1931.
- Honey—Catalase**
Gillette, J. Ec. Ent. 24: 605-606, 1931.
- Honey—Chemical composition**
Phillips, J. Ec. Ent. 24: 581-589, 1931.
- Honey—Crystallization, fermentation**
Dyce, J. Ec. Ent. 24: 597-602, 1931.
bDyce, N.Y. (C) B. 528, 1931, 76p.
Wis. B. 428: 102-103, 1934.
- Honey—Colloidal constituents**
biPaine, Gertler & Lothrop, Indus. & Engin. Chem. 26: 73-81, 1934.
- Honey—Commercial—American foul-brood**
bSturtevant, J. Agr. Res. 45: 257-285, 1932.
- Honey—For auto radiator**
Hambleton, Md. Ext. News 16(4): 4, 1931.
- Honey—Golf ball centres**
A.E.B., Sci. Amer. 151(4): 217, 1934.
- Honey—Granulation**
bFulmer et al, J. Ec. Ent. 27: 652-656, 1934.
- Honey—Immune to bacteria**
Sturtevant, Better Fruit 26(4): 18, '31.
- Honey—Marketing**
bGalbraith, Sci. Agr. 14(4): 177-180, '33.

- Rasmussen, N.Y. (C) Ext. B. 221, 1932, 110p.
- Sherman, Iowa Hort. Soc. Trans. 67: 127-134, 1932.
- iVoorhies et al, Cal. B. 554, 1933, 31p.
- Honey—Meteorological factors**
 Buchanan & Stevenson, Iowa R. f. 1933: 69.
 Park, Iowa R. f. 1934: 93-94.
- Honey—Microbiological studies**
 biLochhead & Heron, Can. Dept. Agr. B. 116, n.s. 1929, 47p.
- Honey—Moisture determination**
 Marvin & Wilson, J. Ec. Ent. 24: 603-604, 1931; 25: 514-520, 1932.
- Honey—Production**
 J. Pan-Pac. Res. Inst. 9(4): 15-16, '34.
 Sturtevant, USDA YB f. 1931: 303-305.
- Honey—Quality and floral source**
 USDA Off. Rec. 10(7): 59, 1931.
- Honey—Recipes**
 iPeters & Atwood, Neb. Ext. C. 911, 1933, 16p.
- Honey—Soil infection by sugar tolerant yeasts**
 biLochhead & Farrell, Can. J. Res. 3(1): 51-64, 1930.
- Honey—Spring work**
 Gooderham, Seas. Hints Can. Exp. Farms Prairie ed. 55: 13-15, 1932.
- Honey—Storage and temperature**
 iWilson & Marvin, J. Ec. Ent. 24: 589-597, 1931; 25: 525-528, 1932
- Honey—Time and labor**
 Buchanan & Stevenson, Iowa R. f. 1933: 68-69.
- Honey—Uses**
 Keck, Ida. St. Hort. Assoc. Conv. 38: 157-160, 1933.
 Oreg. Ext. B. 472, 1934, 16p.
- Honey—Weight per gallon**
 Marvin, J. Ec. Ent. 27: 608-611, 1934.
- Honey and osmophilic yeasts**
 biLochhead & Farrell, Can. J. Res. 5: 665-672, 1931.
- Honey ants, see Myrmecocystus horti-deorum**
- *Honeybee, see Apis mellifera L.**
- Honey dew**
 Gilliatt, N.S. Fr. Grow. Assoc. R. 71: 43-45, 1934.
- Honey flow, goldenrod—Temperature**
 Oertel, J. Ec. Ent. 25: 520-528, 1932
- Honey plants**
 [Christensen] Wis. B. 428: 103, 1934.
 Dozier, J. Ec. Ent. 24: 326, 1931.
 iLovell, Nature Mag. 23: 231-234, 1934.
 Marvin, J. Ec. Ent. 26: 170-176, 1933.
 bOertel, J. Ec. Ent. 24: 627-632, 1931.
 iPammel et al, Iowa Geol. Surv. B. 7, 1930, 1192p.
- bParks, J. Ec. Ent. 25: 506-513, 1932.
 iPellett, Amer. Honey Plants, ed. 3 rev., 1930, 419p.
- iPellett, Rur. N.Y. 89: 1255, 1930
 iVansell, Cal. B. 517, 1931, 55p.
- Honey yield from tulip tree**
 Marvin, J. Ec. Ent. 26: 170-176, 1933.
- Honeysuckle sawflies, see Abia americana, A. inflata**
- Hoodiana, H. pallida**
 inFaure, Bklyn. Ent. Soc. B. 28: 65-69, 1933.
- Hootch pots, see Traps for insects—Hootch pots**
- *Hop aphid, see Phorodon humuli (Schr.)**
- *Hop flea beetle, see Psylliodes punctulata**
- Hoplandrothrips nigricestus**
 nHood, J. N.Y. Ent. Soc. 41: 429-430, 1933.
- Hoplandrothrips virago**
 inHood, Bklyn. Ent. Soc. B. 26: 164-168, 1931.
- Hoplia pubicollis**
 Borden, Cal. Agr. Mo. B. 19: 572-573, 1930.
- Hoplismenus rutilus**
 Cushman, PUSNM 82(14): 1, 1933.
- Hoplitiomyia**
 nJames, Ann. Ent. Soc. Amer. 27: 443-444, 1934.
- Hoplitis hicksi**
 nCockerell, Bklyn. Ent. Soc. B. 27: 203-204, 1932.
- Hoplochaitophorus**
 bnGranovsky, P. Ent. Soc. Wash. 35: 32-33, 1933.
- Hoplogaster subgen.—Key**
 Hockett, Trans. Amer. Ent. Soc. 60: 87-90, 1934.
- Hoplogryon kansansensis**
 bGahan, USDA Misc. Pub. 174: 146, '33.
- Hoplophorella cucullata, varians**

- binJacot, Elisha Mitchell Sci. Soc. J. 48: 250-254, 1933.
- Hoplophthiracarus grossmani** 243-244, **histricinum** 240-242, **robustior** 242-243
- binJacot, Elisha Mitchell Sci. Soc. J. 48: 1933.
- Hoplopleura**
Ferris, Ent. News 45: 85-86, 1934.
- Hoplopeura oenomydis**
Ferris, Bernice P. Bishop Mus. B. 98: 121-127, 1932.
- Hoplosyllus anomalus** and **plague**
Cecil, Text-book of Med. ed. 3: 514, 1934.
- Hoplosphyrum boreale**
Hebard, Trans. Amer. Ent. Soc. 57: 158-159, 1931.
- Hoplotermes, H. amplus**
binLight, Cal. Univ. Pub. Ent. 6(5): 134-139, 1933.
- Hoppingiana monticola**
nBlaisdell, Can. Ent. 66: 150-152, 1934.
- Horama**—Key
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 25, 1930.
- Horesidotes cinereus**
inHebard, Trans. Amer. Ent. Soc. 57: 116-118, 1931.
- Horismenus depressus**
nGahan, PUSNM 77(8): 8-9, 1931.
- Horismenus eudami**
Gahan, Ann. Ent. Soc. Amer. 25: 753, 1932.
- Horismenus texanus**
biGahan, USDA Misc. Pub. 174: 128-131, 1933.
- Horistonotus fidelis**
nFall, J. N.Y. Ent. Soc. 42: 21-22, 1934.
- Horistonotus lutzi**
nVan Dyke, Cal. Acad. Sci. P. Ser. 4, 20: 330-331, 1932.
- Horistonotus pallidus**
nFall, J. N.Y. Ent. Soc. 42: 21, 1934.
- Horistonotus uhleri** Horn (Sand wire-worm)*
Folsom, USDA FB 1688: 25-26, 1932.
Milord, Rev. de Agr. Cuba 12(4): 37, 1930.
- Horistonotus umbilicatus**
nVan Dyke, Cal. Acad. Sci. P. Ser. 4, 20: 329-330, 1932.
- Horizonteichos, H. papuensis**
inVan Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 432-433, 1931.
- Hormaphinae**—Key
Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 241, 1934.
- Hormiga brava**, see **Solenopsis geminata**
- ***Horn fly**, see **Haematobia irritans** L.
- ***Horned passalus**, see **Passalus cornutus**
- Hornet**, see **Vespa crabro**
- Hornia minutipennis**
Rau, Psyche 37: 155-156, 1930.
- Hornia (Leonidia) neomexicana**
biHicks, Univ. Col. Studies 21: 265-266, 1934.
- Hornworms**, see **Protoparce quinquemaculata**, **P. sexta**
- Horodromoides, H. validus**
inGertsch, Amer. Mus. Nov. 636: 9-10, 1933.
- Horologion, H. speokoites**
inValentine, Ann. Ent. Soc. Amer. 25: 1-8, 1932.
- ***Horse biting-louse**, see **Trichodectes equi**
- ***Horse botfly**, see **Gastrophilus intestinalis**
- ***Horse-radish flea beetle**, see **Phyllotreta armoraciae** (Koch)
- Horseflies**, see **Tabanidae**
- Host selection**
Melandar, J. N.Y. Ent. Soc. 42: 139, 1934.
- Hot water insects**
bBrues, Amer. Acad. Arts & Sci. P. 67: 228-274, 1932.
Lutz, Amer. Mus. Nov. 498, 1931, 10p.
- Hot water treatment**, see **Insecticides**—**Hot water**
- Hour-glass spider**, see **Latrodectus mactans**
- ***House centipede**, see **Scutigera forceps**
- ***House cricket**, see **Gryllus domesticus** L.
- ***House fly**, see **Musca domestica** L.
- House mosquito**, see **Culex quinquefasciatus**
- House plant insects**
Bralliar, Flow. Grow. 18: 9, 1931.
Bush-Brown, Ladies' Home J. 49(2): 137, 1932.
Hamilton, N.J. Agr. 12(12): 7, 1930.
iPartlow, Purdue Agr. 28: 34, 41, 1934.
iPence, Purdue Agr. 29: 23, 1934.

Household insects

- iBack & Cotton, USDA FB 1670, 1932, 21p.
 Britton, Conn. B. 315: 499-500, 1930; B. 327: 471-472, 1931.
 Davis, Purdue Univ. B. 32(7): 52-53, 1932.
 iFord & Covert, S.Dak. Ext. C. 320, 1933. 16p.
 Gardner, Mich. R. f. 1933-34: 29.
 Graham, B.C. Ent. Soc. P. 29: 21-22, 1932.
 iHarrison, Purdue Agr. 26: 34, 45, 1931.
 iHerrick & Griswold, N.Y. (C) Ext. B. 202 rev. 1934, 62p.
 Ladd, N.Y. (C) R. 46: 105-106, 1933.
 iMcDaniel, Mich. Quar. B. 17: 67-71, 1934.
 iMarcovitch, Tenn. B. 147, 1933, 18p.
 Marlatt, USDA Ent. R. f. 1930: 60; R. f. 1931: 71; R. f. 1932: 29; R. f. 1933: 36-37.
 iMetcalf & Flint, Fund. of Ins. Life: 37-40, 1932.
 Mitchener, Ent. Soc. Ont. R. 62: 62, '32.
 iMitchener, Nor'west Farm. 53(6)-14-15, 1934.
 iParks & Jones, Ohio Ext. B. 97 rev. 1933, 32p.
 iSheaffer, Ind. Dept. Conserv. Pub. 103: 74-86, 1930.
 iStiles, Okla. Ext. C. 223 rev. 1933, 20p.
 Strong, USDA Ent. R. f. 1934: 20.
 Twinn, Ent. Soc. Ont. R. 65: 128, 1934.
 Violette, Maine For. Com. R. 19: 70-71, 1932.
 Wallace, Ind. Dept. Conserv. R. 11: 59-61, 1929.
 Wallace, Ind. YB f. 1930: 488.
 Wallace, Ind. Dept. Conserv. R. Div. Ent. f. 1931: 28-36, 1932.
 Wallace et al, Ind. Dept. Conserv. R. 14: 57, 1932.
 Weir, Can. Min. Agr. R. f. 1931/1932: 179-180; R. f. 1933/1934: 61.
 Welsh, Penn. St. Farm. 24(4): 9, 11, 13, 19, 1931.
 Wolff, Oil, Paint & Drug Report 123 (24): 19, 33, 1933.
Hovacris, *H. undulata*
 inRehn, P. Acad. Nat. Sci. Phila. 81: 489-491, 1929.

Huckleberry insects

- Phipps, Maine B. 356: 107-232, 1930.
Hulstia undulata
 Pack, Utah B. 216: 17-18, 1930.
 *Human flea, *see* *Pulex irritans* L.
Humble bees, *see* *Bombus*
Humeroabates humeralis
 biJacot, Bost. Soc. Nat. Hist. Occ. Pap. 5: 369-382, 1931.
Humeroabates humeralis perkinsi
 nJacot, Bernice P. Bishop B. 121: 67, 1934.
Humidity and insects
 biHoldaway, Ecol. Mon. 2: 263-304, '32.
 biMenusan, Ann. Ent. Soc. Amer. 27: 515-526, 1934.
 biSmith, J. Agr. Res. 43: 547-557, 1931.
Humidity apparatus
 Burrell, J. Ec. Ent. 23: 994-997, 1930.
 biWoodrow, J. Ec. Ent. 27: 618-624, 1934.
Hummingbird and Mantis
 Laurent, Ent. News 44: 39, 1933.
Humus fauna—Insects
 bSnell, J. Ent. & Zool. 25: 33-40, 1933.
Hunterellus hookeri
 Bishop, P. Ent. Soc. Wash. 36: 87-88, 1934.
 Cooley, Mont. B. 268: 54, 1932.
 Cooley, U.S. Pub. Health R. 49: 111-112, 1934.
 biGahan, P. Ent. Soc. Wash. 36: 89-97, 1934.
 iKohls, Mont. St. Bd. Ent. Bien. R. 8: 26-34, 1930.
 biMcIntosh, North Amer. Vet. 12(6): 40, 1931.
 bMatheson, Med. Ent.: 66, 1932.
 bPhilip, U.S. Pub. Health R. 46: 2168-2172, 1931.
 bToomey, Ann. Int. Med. 5: 1518-1519, 1932.
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 360-361, 1934.
 Mont. St. Bd. Ent. Bien. R. 8: 16-25, 1930.
Hunter's butterfly, *see* *Cynthia virginien-sis*
Hunting billbug, *see* *Calendra venatus*
Hyadina pullipes
 nCresson, Trans. Amer. Ent. Soc. 56: 103-104, 1930.

- Hyadina sauteri**
nCresson, Trans. Amer. Ent. Soc. 60:
206-207, 1934.
- Hyale brevipes**
iShoemaker, Amer. Mus. Nov. 598: 18,
1933.
- Hyalella azteca, whelpleyi**
inShoemaker, Amer. Mus. Nov. 598: 18-
24, 1933.
- Hyaliodes vitripennis**
Torre-Bueno, Bklyn. Ent. Soc. B. 26:
176, 1931.
- Hyalomma aegyptium**
Cooley, Mont. St. Bd. Ent. Bien. R. 8:
23, 1930.
- Hyalomyia occidentis**
Aldrich, PUSNM 80(10): 2-3, 1931.
- Hyalopterus arundinis (F.) (Mealy plum
aphid*)**
iEssig & Hoskins, Cal. Ext. C. 87: 74,
1934.
Hutchison, Cal. R. f. 1929/1930: 66,
1931; R. f. 1930/1931: 71, 1932; R. f.
1932/1934: 74.
Hutson, Mich. Sp. B. 244: 14, 1933.
iNewcomer, USDA C. 270: 50, 1933.
- Hyalopterus atriplicis and Yellow dwarf**
Drake, Iowa R. f. 1932: 57-58.
- Hyalothyrs mimicus**
iWilliams & Bell, Trans. Amer. Ent.
Soc. 60: 270, 1934.
- Hyalothyrs neleus**
Williams & Bell, Trans. Amer. Ent.
Soc. 60: 124-125, 1934.
- Hybla maculata**
inMcAtee, P.R. Dept. Agr. J. 16: 119-
120, 1932.
- Hyblaea—Pupa.**
Forbes, Ann. Ent. Soc. Amer. 26: 490,
1933.
- Hydaphis xanthii**
biMiller, Penn. Acad. Sci. P. 5: 75-79,
1931.
- Hydnobius simulator**
nBrown, Can. Ent. 64: 6-7, 1932.
- Hydnobius validus**
inBrown, Can. Ent. 64: 202-203, 1932.
- Hydnocera unifasciata, verticalis**
Knull, Ent. News 43: 42, 43, 1932.
- Hydracarina**
biLundblad, Conn. Acad. Arts & Sci.
Mem. 10: 85-118, 1934.
- biMarshall, Wis. Acad. Sci. Trans. 26:
312-319, 1931; 27: 339-356, 1932;
28: 37-61, 1933.
- biMarshall, Amer. Micros. Soc. Trans.
52(1): 34-41, 1933.
- Hydrachna bilunata**
iMarshall, Wis. Acad. Sci. Trans. 26:
314, 1931.
- Hydrachna crenulata, rotunda**
inMarshall, Wis. Acad. Sci. Trans. 25:
246-247, 1930.
- Hydrellia advenae**
nCresson, Ent. News 45: 236, 1934.
- Hydrellia crassipes, decens**
nChamberlin, Ent. News 42: 107, 1931.
- Hydrellia morrisoni, notiphiloides**
nChamberlin, Ent. News 42: 105, 108,
1931.
- Hydrellia platygastera**
nCresson, Ent. News 42: 105, 1931.
- Hydrellia proctori**
nCresson, Ent. News 45: 235, 1934.
- Hydrellia prudens**
nCurran, BAMNH 61: 78, 1931.
- Hydrellia pulla**
nCresson, Ent. News 42: 108, 1931.
- Hydrellia spp.**
nCresson, Trans. Amer. Ent. Soc. 58:
1-27, 1932.
- Hydrellia serena, subnitens**
nCresson, Ent. News 42: 104-106, 1931.
- Hydrina morans, tirolis**
nCresson, Trans. Amer. Ent. Soc. 56:
98-100, 1930.
- Hydrochara**
Mutchler, Amer. Mus. Nov. 507, 1931,
3P.
- Hydroecia micacea (Esp.) (Potato stem
borer)***
iDustan, Can. Dept. Agr. Ent. B. 32:
69-70, 1932.
iGibson, Can. Dept. Agr. B. n.s. 99 rev.:
51, 52, 1934.
- Hydromanicus intermedius**
inMartynov, PUSNM 79(25): 9-10, '31.
- Hydrometra whitei**
nHungerford, J. Kans. Ent. Soc. 6: 142-
143, 1933.
- Hydrophilidae**
bWeber, Ind. Acad. Sci. P. 41: 483-494,
1932.

- Hydrophilus**
Mutchler, Amer. Mus. Nov. 507, 1931, 3p.
- Hydrophilus obtusatus**
bRichmond, J. N.Y. Ent. Soc. 39: 191-251, 1931.
- Hydrophorus browni**
nCurran, J. N.Y. Ent. Soc. 38: 73-74, 1930.
- Hydrophorus hirtipes**
inVan Duzee, Amer. Mus. Nov. 655: 17-18, 1933.
- Hydrophorus oregonensis**
inVan Duzee, Amer. Mus. Nov. 655: 19-20, 1933.
- Hydrophorus pacificus**
inVan Duzee, Hawaiian Ent. Soc. P. 8: 347-348, 1933.
- Hydrophorus patagonicus**
nVan Duzee, Amer. Mus. Nov. 484: 6-7, 1931.
- Hydrophorus sp.**
Williams, Hawaiian Ent. Soc. P. 8: 213, 1933.
- Hydrophorus spinosus**
inVan Duzee, Amer. Mus. Nov. 655: 16-17, 1933.
- Hydroporus barbarae**
nFall, Bklyn. Ent. Soc. B. 27: 146, 1932.
- Hydroporus barbarensis**
nWallis, Can. Ent. 65: 262, 1933.
- Hydroporus browni**
nWallis, Can. Ent. 65: 261-262, 1933.
- Hydroporus brumalis**
nBrown, Can. Ent. 62: 235-237, 1930.
- Hydroporus compertus**
nBrown, Can. Ent. 64: 4, 1932.
- Hydroporus edwardsi**
nWallis, Can. Ent. 65: 261, 1933.
- Hydroporus falsificus**
nBrown, Can. Ent. 65: 44-45, 1933.
- Hydroporus hortense** 27, **mathiasi** 22-23, **snoqualmie** 26
nHatch, Bklyn. Ent. Soc. B. 28: 1933.
- Hydroporus spp.**
Hatch, Bklyn. Ent. Soc. B. 28: 21-27, 1933.
- Hydropsyche appendicularis**
inMartynov, PUSNM 79(25): 7-8, 1931.
- Hydropsyche codona**
inBetten, N.Y. St. Mus. B. 292: 187, '34.
- Hydropsyche columnata, penicillata**
inMartynov, PUSNM 79(25): 8, 9, 1931.
- Hydropsyche spp.**
Osgood, J. Allergy 5: 367-372, 1934.
- Hydroptila waubesiana**
inBetten, N.Y. St. Mus. B. 292: 160-161, 1934.
- Hydropyrus**
nCresson, Trans. Amer. Ent. Soc. 60: 216-217, 1934.
- Hydrovatus confertus**
Williams, Hawaiian Ent. Soc. P. 8: 373, 1934.
- Hydryphantes multiporus**
inMarshall, Wis. Acad. Sci. Trans. 25: 247-248, 1930.
- Hygrobates longipalpis**
biMarshall, Wis. Acad. Sci. Trans. 27: 346-347, 1932.
- Hygoribates, H. marinus**
binJacot, J. N.Y. Ent. Soc. 42: 330-336, 1934.
- Hylaeidae**
Step, Bees, Wasps, Ants: 106-113, '32.
- Hylaeogena alibertiae, coelicolor**
iFrost, Ann. Ent. Soc. Amer. 24: 397, 1931.
- Hylaeus**
Sumner, Col-Wyo. Acad. Sci. J. 1(4): 59, 1932.
- Hylaeus divergens** 7-9, **ellipticus** 4-5, **laciniaius** 9-10
nCockerell & Sumner, Amer. Mus. Nov. 490: 1931.
- Hylaeus modestus**
Rau, Acad. Sci. St. Louis Trans. 28: 221, 1934.
- Hylaeus perparvus** 10-12, **repolitus** 13-15, **seclusus** 12-13
nCockerell & Sumner, Amer. Mus. Nov. 490: 1931.
- Hylaeus spp.**
Sumner, Univ. Col. Studies 20: 91-92, 1932.
- Hylaeus verticalis**
Cockerell & Sumner, Amer. Mus. Nov. 490: 3-4, 1931.
- †Hylemya antiqua Meig. (Onion maggot)***
Beattie, USDA FB 354, rev.: 25-26, 1930.
Betten, N.Y. (C) R. 45: 118, 1932.
Britton, Conn. B. 344: 135-136, 1933.

- iCaesar, Ont. Dept. Agr. B. 359: 49-52, 1931.
- iChristensen, Wis. B. 421: 84-85, 1932.
- iCompton, Ill. C. 391: 31-33, 1932.
- iCrosby & Chupp, N.Y. (C) Ext. B. 206, rev.: 64-69, 1933; Ext. B. 278: 54-55, 1934.
- Davis, Ind. Acad. Sci. P. 39: 296, 1930.
- Drake, Iowa R. f. 1934: 95-96.
- Dustan, Can. Hort. Fr. & Truck ed. 53: 218, 1930.
- Dustan, Ont. Veg. Grow. Assoc. R. 25: 47-49, 1930.
- Dustan, Ent. Soc. Ont. R. 61: 81-82, 1931.
- iDustan, Can. Dept. Agr. Ent. B. 32: 59-60, 1932.
- Dustan, Que. Soc. Prot. Pl. R. 23/24: 20-27, 1932.
- iDustan, Can. Dept. Agr. Ent. Br. C. 88, 1933, 4P.
- iGilbert & Popenoe, USDA FB 1371 rev.: 29, 1930; rev.: 29, 1934.
- iGlasgow, J. Ec. Ent. 27: 306-308, 1934.
- iGlasgow & Cook, N.Y. Dept. Agr. & Markets B. 240: 76-83, 1930.
- Houser & Slesman, Ohio B. 446: 85-86, 1930.
- Jardine, Oreg. Bien. R. f. 1928/1930: 89.
- iJones, J. Ec. Ent. 23: 394-398, 1930.
- Kendall, Ent. Soc. Ont. R. 62: 82-84, 1932.
- Lloyd, Ill. C. 410: 15-16, 1933.
- Mote, Oreg. St. Hort. Soc. R. 24: 92, 1932.
- Mumford, Ill. R. 42: 146-148, 1929; R. 43: 145-146, 1930; R. 44: 144, 1931.
- iMunro & Riddle, N.Dak. C. 42 rev.: 45, 1933.
- Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 12.
- Pettit, Mich. St. Bd. Agr. R. 69: 208, 1930.
- iPettit, Mich. Ext. B. 117: 12-13, 1931.
- Pettit, Mich. Ent. R. f. 1931: 18.
- Pettit, Mich. R. 44: 268-269, 1931.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 5: 3-4, 1932.
- Ruggles, Minn. Hort. 59: 72, 1931.
- iSanderson, Ins. Pests Farm, ed. 3: 249-251, 1931.
- Skinner, Ind. R. 46: 26, 1933..
- Skinner & Reed, Ind. R. 45: 34-35, '32.
- Slesman, Ohio B. 470: 86-87, 1931; B. 497: 75-76, 1932; B. 516: 48-49, '33.
- iSlesman & Gui, Ohio Bi-Mo. B. 149: 35-31, 1931.
- Stoutamire, Fla. Dept. Agr. B. n.s. 39: 17-18, 1930.
- Tolles, Mich. Ent. R. f. 1930: 6.
- Twinn, Ent. Soc. Ont. R. 64: 66, 1933.
- Williams, Ohio B. 532: 41, 1934.
- †Hylemya brassicae (Cabbage maggot)*
- iAmos, Purdue Agr. 26: 142, 1932.
- Britton, Conn. B. 344: 89-90, 1933.
- iCaesar, Ont. Dept. Agr. B. 359: 30-32, 1931.
- Caesar, Ont. Agr. & Expt. Union R. 55: 35-36, 1934.
- Chambers, Wis. Hort. 22: 292, 310, '32.
- iCocks, Conn. (Storrs) Ext. B. 185: 5-6, 1933.
- Compton, Ill. St. Hort. Soc. Trans. 64: 428-429, 1930.
- Compton, Ill. C. 391: 6-8, 1932.
- Crosby & Chupp, N.Y. (C) Ext. B. 206 rev.: 5-11, 1933; Ext. B. 278: 5-10, 1934.
- Davis, Ind. Ext. B. 186: 16-17, 1932.
- iDustan, Can. Dept. Agr. Ent. B. 32: 40-41, 1932.
- iEssig & Hoskins, Cal. Ext. C. 87: 32, 34, 1934.
- Friend, Conn. B. 327: 542-544, 1931.
- Friend, J. Ec. Ent. 25: 709-712, 1932.
- Friend, Conn. Veg. Grow. Assoc. R. 20: 69, 1933.
- iGilbert & Popenoe, USDA FB 1371 rev.: 19-20, 1930.
- biMex. Agr. & Fomento. Principales Plagas: 188-189, 1930.
- iPettit, Mich. Ext. B. 117: 5, 1931.
- iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 5: 1-2, 1932.
- iRuggles, Minn. Hort. 59: 100, 1931.
- iSanderson, Ins. Pests Farm ed. 3: 202-205, 1931.
- iSchermerhorn & Nissley, N.J. Ext. B. 74, 1930, 4P.
- Scott, Can. Hort. Fr. ed. 57: 61, 1934.
- Sherwood, W.Va. Ext. C. 294: 23, 1930.
- Sherwood, W.Va. Ext. C. 305: 7-8, 1934.

Hylemya brassicae *Cont'd*

Strickland, Ent. Soc. Ont. R. 60: 30, 1930.

Twinn, Ent. Soc. Ont. R. 64: 66, 1933.

Twinn, Ent. Soc. Ont. R. 65: 115, 1934.

Webster, Wash. Ext. B. 186: 6, 1934.

Hylemya brassicae—Bichloride of mercury

Friend, N.H. Hort. Soc. Meet. Manchester, Dec. 8, 1932: 72-73.

iGilbert & Popenoe, USDA FB 1371 rev.: 18-19, 1934.

Mote, Oreg. St. Hort. Soc. R. 24: 91-92, 1932.

Hylemya brassicae—Calomel

bFriend, Conn. B. 338: 588-592, 1932.

Hylemya brassicae—Corrosive sublimate

iMunro & Riddle, N.Dak. C. 42 rev.: 19, 1933.

Stout, Rur. N.Y. 89: 1202, 1930.

Hylemya brassicae and Bacterial rot

Maine B. 357: 236-237, 1930.

Hylemya brassicae and White rot

Bonde, Maine R. 46: 236-237, 1930.

Hylemya brunnescens

Spencer, B.C. Ent. Soc. P. 30: 21-22, 1933.

Hylemya cerealis

bSeamans, Pac. Sci. Cong. 5, P. 5: 3479, 1934.

Strickland, Alberta Ext. B. 24: 52-53, 1933.

Hylemya cilicrura (Seed-corn maggot)*

iCaesar, Ont. Dept. Agr. B. 359: 23-25, 1931.

Compton, Ill. C. 391: 19, 1932.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 28-29, 1933.

Crosthwait, Peninsula Hort. Soc. Trans. 46: 15-16, 1932.

iDustan, Can. Dept. Agr. Ent. B. 32: 34, 1932.

Hawthorn, Tex. C. 66: 7, 1932.

Hutson, Bean-bag 14(3): 13, 1931.

Jones, Tex. R. 46: 51-52, 1933; R. 47: 52, 1934.

Lacroix, Conn. B. 326: 419, 1931.

MacLaren, La Hacienda 26: 190, 1931.

Marcovitch, Tenn. R. 43: 37, 1930; R. 44: 47, 1931.

Marlatt, USDA Ent. R. f. 1930: 27; R. f. 1931: 35-36.

biMex. Agr. & Fomento. Principales Plagas: 165-166, 1930.

Pettit, Mich. St. Bd. Agr. R. 69: 219, 1930; R. 70: 268, 1931.

Pettit, Mich. Ent. R. f. 1930: 17; R. f. 1931: 18.

iPettit, Mich. Ext. B. 117: 10, 1931.

iPieper et al, Ill. B. 344: 278-279, 1930.

iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 3(5): 2-3, 1932.

Reid et al, USDA YB f. 1932: 331-333.

Smith, J. Kans. Ent. Soc. 5: 87, 1932.

Smith, J. Ec. Ent. 26: 910-911, 1933.

Twinn, Ent. Soc. Ont. R. 65: 115, 1934.

iWatson, Fla. B. 232: 44-45, 1931.

Hawaiian Ent. Soc. P. 8: 377, 1934.

Hylemya cilicrura and Blackleg of potato

iLeach, Minn. TB 76: 5, 1931.

bLeach, Phytopath. 21: 387-406, 1931.

MacLeod, Can. Exp. Farms, Div. Bot. R. f. 1930: 161.

Maine B. 357: 236, 1930.

Hylemya cilicrura and Potato seedpiece decay

Bonde, Maine R. 46: 236, 1930.

Hylemya florilega

Spencer, B.C. Ent. Soc. P. 30: 22, 1933.

Hylemya heydeni

Neiva & Gomez, P.R. Rev. de Agr. 24: 106, 1930.

Hylemya planipalpis

iKeifer, Cal. Agr. Mo. B. 20: 249-250, 1931.

Hylemya rubivora, *see* **Pegomyia rubivora****Hylemya** spp.

bHuckett, Can. Ent. 66: 132-140, 1934.

Watson, Fla. B. 232: 75-76, 1931.

Hylemyia, *see* **Hylemya****Hylesia** spp.

nSchaus, J. Wash. Acad. Sci. 22: 144-146, 1932.

Hylesinus opaculus

Linder, Missouri Bot. Gard. B. 19: 67, 1931.

Hylobius gebleri

bClausen, USDA C 168: 23, 1931.

Hylobius pales (Hbst.) (Pales weevil)*

Morgenthau, N.Y. Conserv. Dept. R. 22: 124-125, 1933.

Osborne, N.Y. Conserv. Dept. R. 23: 103-107, 1934.

- iYork, J. Ec. Ent. 26: 218-221, 1933.
 J. Ec. Ent. 25: 1249-1250, 1932.
- Hylobius perforatus**
 bClausen, USDA C. 168: 42-43, 1931.
- Hylobius radialis**
 inBuchanan, P. Ent. Soc. Wash. 36: 252-256, 1934.
- Hylobius spp.—Key**
 Buchanan, P. Ent. Soc. Wash. 36: 254, 1934.
- Hyloicus balsae, chisoya**
 nSchaus, J. Wash. Acad. Sci. 22: 141-142, 1932.
- Hyloicus eremitodes**
 Calkins, Ent. News 44: 116-119, 1933.
- Hyloicus merops judsoni**
 nSchaus, J. N.Y. Ent. Soc. 40: 375, 1932.
- Hyloicus merops monjena**
 nSchaus, J. Wash. Acad. Sci. 22: 140-141, 1932.
- Hylotoma mali, see Arge mali**
- Hylurgopinus rufipes (Eich.) (Native elm bark beetle)***
 iFelt, Barlett Tree Res. Lab. Ed. B. 60, 1933: 23p.
 McDaniel, Mich. Sp. B. 238: 25-26, '33
- Hylurgopinus rufipes and Dutch elm disease**
 Felt, Flor. Exch. 81(33): 21, 1933.
 Felt, Nat. Nurserym. 41(22): 8, 1933.
 iKnull, J. Ec. Ent. 27: 865-866, 1934.
 Rankin, Gard. Chron. Amer. 37: 343-344, 1933.
 Amer. For. 29: 520, 1933.
- Hylurgops subcostulatus**
 bBlackman, N.Y. St. Col. For. TB 36: 34, 1931.
- Hymenarcys nervosa**
 biBaker, Can. J. Res. 4: 196, 1931.
- Hymenoptera**
 Brown, Can. Ent. 66: 261-267, 1934.
 iMetcalf & Flint, Fund. of Ins. Life: 293-328, 1932.
 Ross, Ancestry, Wing Venation and Classification of the Primitive Hymenoptera, 1933. 8p. (Abstract)
 Walley, Can. Ent. 64: 181-189, 1932.
 Whitney, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 94, 1931.
- Hymenoptera—Parasitic**
 DeGant, P. Ent. Soc. Wash. 32: 163-165, 1930.
- Gahan, PUSNM 77(8): 1-12, 1931.
- bHoffman, J. Kans. Ent. Soc. 5: 33-37, 1932.
- Knowlton & Janes, Utah Acad. Sci. P. 7: 73-74, 1930.
- McDaniel, Mich. Sp. B. 214: 52-54, '31.
- biVance & Smith, Ann. Ent. Soc. Amer. 26: 86-94, 1933.
- nWalley, Can. Ent. 65: 253-261, 1933.
- Hymenoptera—Polyploidy in**
 Reed, Psyche 41: 164-165, 1934.
- Hymenoptera—Relationship**
 bCarpenter, Psyche 37: 370-372, 1930.
- Hymenoptera—Social stinging**
 iAaron, Nature Mag. 19: 157-161, 1932.
- Hymenoptera—Wings**
 iStep, Bees, Wasps & Ants: 11-18, 1932.
- Hymenoptera and disease**
 iRiley & Johannsen, Med. Ent.: 414-422, 1932.
- Hymenoptera at mud-hole**
 Swezey, Hawaiian Ent. Soc. P. 7: 366, 1931.
- Hymenorus spp.**
 Fall, Trans. Amer. Ent. Soc. 57: 161-247, 1931.
- Hypaspidius morio**
 inOhaus, J. Wash. Acad. Sci. 23: 473, '33.
- Hypeninae**
 iCrumb, Ent. Amer. n.s. 14: 113-196, 1934.
- Hypera nigrostris (Lesser clover leaf weevil)***
 Skinner & Reed, Ind. R. 44: 32, 1931.
- †**Hypera postica (Alfalfa weevil)***
 Blanchard, J. Ec. Ent. 25: 931, 1932.
 Browne, Pac. Rur. Press 123: 487, 499, 1932.
 Cardon, Utah B. 235: 57, 1932.
 iDoane, Common Pests: 247-249, 1931.
 Doten, Nev. R. f. 1933/1934: 34.
 Drake, Iowa St. Dept. Agr. YB 31: 155-157, 1930.
- iEssig, Hist. of Ent.: 195-203, 1931.
- iEssig & Hoskins, Cal. Ext. C. 87: 4-5, 1934.
- biEssig & Michelbacher, Cal. B. 567, 1933, 99p.
- Fleury, Cal. Agr. Mo. B. 19: 826-827, 1930.
- Fleury, Cal. Dept. Agr. Sp. Pub. 115: 155, 1932; Sp. Pub. 119: 30, 1933.

†Hypera postica Cont'd

- French, Va. Dept. Agr. B. 274: 4-5, '30.
 Hamlin & Hawley, Cent. West. Shippers Advisory Bd. P. 20: 60-66, '30.
 iHawley, Cal. Dept. Agr. Sp. Pub. 115: 94-103, 1932.
 Hill, Wyo. R. 39: 23-24, 1931; R. 40: 23-24, 1931; R. 42: 23, 1932.
 Hungerford, Kans. St. Hort. Soc. Bien. R. 41: 39-42, 1932.
 Jacobsen, Cal. Agr. Mo. B. 18: 738-739, 1929.
 Lockwood, Cal. Agr. Mo. B. 18: 772-773, 1929.
 Marlatt, USDA Ent. R. f. 1930: 22; R. f. 1931: 29; R. f. 1932: 13; R. f. 1933: 17.
 bMichelbacher & Essig, J. Ec. Ent. 27: 960-966, 1119-1127, 1934.
 Mohler et al, Kans. Ent. Comm. Quarantine 3: 4-5, 1931.
 Moulton, Cal. Agr. Mo. B. 20: 754, '32.
 iNewton, Col. B. 399, 1933, 19p.
 Ryan, Los Angeles Co. R. f. 1932: 6-7, 41, 77.
 iSanderson, Ins. Pests Farm ed. 3: 171-174, 1931.
 iSchweis, Cal. Agr. Mo. B. 19: 231-234, 1930.
 biSorenson, Utah C. 98: 17-21, 1932.
 biSweetman, J. Ec. Ent. 25: 681-693, '32.
 bSweetman, Ecology 14(1): 46-60, 1933.
 Wakeland, Ida. Univ. News Letter 15(4): 3, 1931.
 Wicks, Cal. Agr. Mo. B. 23: 35-337, 1934.

Hypera postica—Parasites

- Essig & Michelbacher, Cal. B. 567: 62, 1933.
 bFlanders, Ann. Ent. Soc. Amer. 28: 438-444, 1934.
 Iddings, Ida. B. 179: 29, 1931.
 Michelbacher & Essig, J. Ec. Ent. 27: 965-966, 1934.
 bSmith, Ann. Ent. Soc. Amer. 23: 577-578, 1930; 26: 527-528, 1933.

Hypera postica—Quarantine

- Case & Mayes, Missouri St. Bd. Agr. B. 28(2): 17, 1930.
 iDrake, Iowa Dept. Agr. YB 30: 167-169, 1929; YB 31: 155-157, 1931.

Emmerson, Seed World 27(2): 23, 30, 1930.

Fleury, Cal. Agr. Mo. B. 21: 551-552, 1932; B. 22: 527, 1933; B. 23: 484-485, 1934.

Longan, Cal. Agr. Mo. B. 20: 236-239, 1931.

iReeves et al, Cal. Dept. Agr. Sp. Pub. 115, 82-94: 1932.

iStorgaard, Pac. Rur. Press 123: 510, '32.

Sullivan, Missouri St. Bd. Agr. B. 28(2): 17, 1930.

Wicks, Cal. Dept. Agr. Sp. Pub. 119: 33, 69-72, 1933.

Cal. Cult. 77: 145, 1931.

J. Ec. Ent. 25: 1121, 1932; 26: 520-521, 1933; 27: 554, 1108, 1203, 1934.

Hypera postica—Survey

Wakeland, Ida. News Letter 14(7): 2, 1930; (8): 3, 1930.

Hypera postica—Transportation

Reeves, J. Ec. Ent. 23: 329-331, 1930.

Hypera punctata (F.) (Clover leaf weevil)*

biBarrett, Cal. Univ. Ent. Pub. 5(5): 98-100, 1930.

Bieberdorf, Okla. R. f. 1930/1932: 252-254; R. f. 1932/1934: 268-269.

Britton, Conn. B. 344: 97, 1933.

Drake, Seed World 29(10): 40, 1931.

iEssig, Hist. of Ent.: 192-195, 1931.

Essig & Hoskins, Cal. Ext. C. 87: 5-6, 1934.

Pack & Fife, Utah B. 216: 28-30, 1930.

Skinner & Reed, Ind. R. 44: 32, 1931.

Hypera rumicis (Sorrel weevil)

iBritton, Conn. B. 349: 455-457, 1933.

Britton, Conn. B. 360: 474, 1934.

bChamberlin, P. Ent. Soc. Wash. 35: 101-109, 1933.

Hypera variabilis, see Hypera postica**Hyperionia**

bPainter, Ann. Ent. Soc. Amer. 23: 794-796, 1930.

Hyperaspis horni, mexicanus

nNunenmacher, Pan-Pac. Ent. 10: 19-20, 1934.

Hyperaspis binotata

Chambers, Wis. Dept. Agr. B. 115: 54, 1931.

Hyperaspis bironatus

nNunenmacher, Pan-Pac. Ent. 10: 18, 1934.

Hyperaspis disconotata

Frost, Psyche 38: 35, 1931.

Hyperaspis fimbriolata marginatus

nGaines, J. N.Y. Ent. Soc. 41: 263-264, 1933.

Hyperaspis lateralis

Cole, J. Ec. Ent. 26: 858, 1933.

iMcKenzie, Cal. Univ. Pub. Ent. 6(2): 9-18, 1932.

Sweet, J. Ent. & Zool. 22: 96, 1930.

Hyperaspis leachi

nNunenmacher, Pan-Pac. Ent. 10: 19, 1934.

Hyperaspis octonotata

Scott, J. Ec. Ent. 26: 298-299, 1933.

Hyperaspis paludicola

Frost, Psyche 38: 35, 1931.

Hyperaspis quadrivittata

Yothers, USDA TB 402: 37, 1934.

Hyperaspis signata

Ladd, N.Y. (C.) R. 46: 105, 1933.

Hypercallia bruneri

nBusck, Ent. Amer. n.s. 13: 161-162, 1933.

Hypercallia rosacea

inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 379, 1931.

inForbes, P.R. Dept. Agr. J. 15: 379, '31.

Hypercompsa xanthosticta

inHebard, Trans. Amer. Ent. Soc. 59: 25-26, 1933.

Hyperetes tessulatus

Giovannoli, Bailey, Cave Life of Ky.: 231-232, 1933.

Hyperchiria io, see Automeris io**Hypermallus incertus**

Knull, Ent. News 43: 62-63, 1932.

Hypermallus villosus (F.) (Twig pruner)*

Felt, Nat. Shade Tree Conf. P. 8: 77, 1932.

Felt, J. Ec. Ent. 26: 48, 1933.

Hamilton, Nat. Shade Tree Conf. P. 9: 63-64, 1933.

Knull, Ent. News 45: 209, 1934.

iMcDaniel, Mich. Quar. B. 15(1): 19-20, 1932.

iMcDaniel, Mich. Sp. B. 238: 15-16, 1933.

Moznette, USDA FB 1654: 53-54, '31.

Hyperodes porcellus

Britton, Conn. B. 338: 593, 1932.

Hyperparasitism

Hadden, Hawaiian Pl. Rec. 34: 25-32, 1930.

biProper, J. Agr. Res. 48: 359-376, 1934.

Hyphantria cunea (Fall webworm)*

iBritton, Conn. B. 344: 141, 1933.

Burke, Cal. Agr. Mo. B. 21: 358, 1932.

Burkett, Tex. Dept. Agr. B. 111: 206, 1932.

iCaesar, Ont. B. 356: 43-44, 1930.

iDavis, Ind. Ext. B. 167: 14-15, 1930.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 14, 1934.

Gorham et al, Ent. Soc. Ont. R. 59: 16, 1929.

Irish, Soc. Amer. Flor. P. 45: 244, 1929.

iMoznette et al, USDA FB 1654: 32-34, 1931.

Pettit & Hutson, Mich. C. B. 137: 18, 1931.

Pickett, N.S. Fr. Grow. Assoc. R. 70: 53, 1933.

Porter, North. Nut. Grow. Assoc. R. 23: 75, 1932.

Potter et al, N.H. Ext. B. 47: 42, 1934.

iQuaintance & Siegler, USDA FB 1270 rev : 44-45, 1931.

Quaintance & Siegler, USDA FB 1666: 37, 1931.

iRoss, Can. Dept. Agr. B. 129: 44-45, 1930.

Smith, J. Kans. Ent. Soc. 5: 89-90, '32.

biSoraci, N.J. Dept. Agr. C. 243: 13-14, 1934.

Twinn, Ent. Soc. Ont. R. 64: 74, 1933.

Twinn, Ent. Soc. Ont. R. 65: 122, 1934.

Walker, Fla. R. f. 1932: 84.

Hyphantria textor

iNewcomer, USDA C. 270: 39-40, 1933.

Hypnoidini

Van Dyke, Cal. Acad. Sci. P. ser. 4, 20: 325-327, 1932.

Hypnoidus glacialis, lecontei

nVan Dyke, Cal. Acad. Sci. P. ser 4, 20: 326-327, 1932.

Hypnoidus manki, valens

nFall, J. N.Y. Ent. Soc. 42: 18-20, 1934.

Hypoaspis (Laelaps) macropilis

Sakimura, J. Ec. Ent. 23: 1009, 1930.

Hypocera californica

nVan Duzee, Pan-Pac. Ent. 9: 63-64, 1933.

- Hypochthonius rufulus paucipunctatus**
 nJacot, P. Ent. Soc. Wash. 36: 260-261, 1934.
- Hypocoelus californicus**
 nVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 292-293, 1932.
- Hypocoena rufastrigata**
 biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
- Hypoderma bovis (Northern cattle grub)***
 iCameron, J. Agr. & Hort. 37(9): 6, 20-21, 1934.
 Compton, J. Ec. Ent. 24: 643-646, '31.
 Degtyarev, Amer. Leather Chem. Assoc. J. 28: 565, 1933.
 Doane, Common Pests: 57-58, 1931.
 iFlint & Metcalf, Insects Man's Chief Competitors: 96-105, 1932.
 Haseman, Missouri B. 340: 50, 1934.
 iHearle, Can. Dept. Agr. Pam. 147 n.s.: 7-11, 1932.
 bKingscote, Ont. Vet. Coll. R. f. 1931: 62-71.
 Marlatt, USDA Ent. R. f. 1932: 30-31.
 bMatheson, Med. Ent.: 396, 1932.
 Mayo, La Hacienda 25: 516-518, 1930.
 iO'Flaherty & McLaughlin, Amer. Leather Chem. Assoc. J. 25: 266-270, 1930.
 Rawson, Sci. Mo. 39: 501, 1934.
 iStevenson, Ont. Dept. Agr. B. 350, 1930, 11p.
 Stevenson, Ent. Soc. Ont. R. 65: 81-83, 1934.
 Twinn, Que. Soc. Prot. Pl. R. 23/24: 164, 1932.
 Twinn, Ent. Soc. Ont. R. 65: 128, 1934.
- Hypoderma bovis and Cutaneous myiasis**
 Cecil, Text-book of Med. ed. 3: 509: 1934.
- Hypoderma lineatum (Common cattle grub)***
 Bishopp, P. Ent. Soc. Wash. 34: 11, '32.
 Caler, J. Kans. Ent. Soc. 4: 85-86, '31.
 iCameron, J. Agr. & Hort. 37(9): 6, 20-21, 1934.
 Compton, J. Ec. Ent. 24: 643-646, '31.
 Davis, Country Gentl. 102(7): 44, 1932.
 iDoane, Common Pests: 55-57, 1931.
 iGildersleeve, Dak. Farm. 52: 319, 1932.
 iHearle, Can. Dept. Agr. Pam. 147 n.s.: 3-7, 1932.
 bKingscote, Ont. Vet. Coll. R. f. 1931: 62-71, 1932.
 McIntosh, Can. Dept. Agr. Vet. Dir. Gen. R. f. 1932/33: 51-52.
 Marlatt, USDA Ent. R. f. 1932: 30-31.
 bMatheson, Med. Ent.: 396-397, 1932.
 Mayo, La Hacienda 25: 516-518, 1930.
 iO'Flaherty & McLaughlin, Amer. Leather Chem. Assoc. J. 25: 266-270, 1930.
 Pemberton, Hawaiian Ent. Soc. P. 8: 242-243, 1933.
 Rawson, Sci. Mo. 39: 501, 1934.
 iRiley & Johannsen, Med. Ent.: 314-317, 1932.
 iSanderson, Ins. Pests Farm ed. 3: 518-520, 1931.
 Smith, J. Kans. Ent. Soc. 5: 74, 1932.
 iStevenson, Ont. Dept. Agr. B. 350, 1930, 11p.
 Stevenson, Ent. Soc. Ont. R. 65: 81-83, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 78, 1933.
 Twinn, Ent. Soc. Ont. R. 65: 128, 1934.
- Hypoderma spp.**
 Barth, Amer. Leather Chem. Assoc. J. 27: 191, 1932.
 Bishopp, USDA YB f. 1931: 324-325.
 Davies, J. Agr. & Hort. 34: 78, 1930.
 Fulton, Sask. Ext. B. 51, 1931, 4p.
 Gansser, Amer. Leather Chem. Assoc. J. 27: 479-481, 1932.
 Gunn, B.C. Dept. Agr. R. 28: 45, 1933.
 iHall, North Amer. Vet. 15(6): 55-59, 1934.
 iHearle, Can. Dept. Agr. Pam. Ent. Br. 147 n.s. 1932, 11p.
 Marlatt, USDA Ent. R. f. 1930: 63-64; R. f. 1931: 72-73; R. f. 1933: 41.
 Martin, Penn. Univ. Vet. Ext. Quart. 45: 1-4, 1932.
 Mohler, USDA BAI R. f. 1932: 55; R. f. 1934: 49.
 Mumford, Ill. R. 45: 144-145, 1932; R. 46: 162, 1933.
 Parks, Alaska R. of Gov. f. 1929/1930: 101; f. 1930/1931: 121.
 Pettit, Mich. Quar. B. 14: 190-191, '32.
 iStevenson, Ont. Dept. Agr. B. 350: 1-11, 1930.
 Stevenson, Ont. Min. Agr. R. f. 1932: 88-89.

- White, Kans. Live Stock San. Comm. Bien. R. 14: 151-153, 1933.
- Woodward, Dawson & Miller, USDA FB 1470 rev.: 30, 1932.
- Amer. Leather Chem. Assoc. J. 29: 464, 1934.
- Hypomolyx piceus (Hypomolyx weevil)**
Osborne, N.Y. Conserv. Dept. R. 23: 103-107, 1934.
- Hyponomeuta malinellus (Ermine moth)***
Clausen, USDA C. 168: 17-18, 1931.
- Hyponomeuta padella**
Howard, Hist. of Appl'd Ent.: 245, '30.
- Hypophloeus spp.**
nWallis, Can. Ent. 65: 247-249, 1933.
- Hypophloeus substriatus**
biStruble, Cal. Univ. Pub. Ent. 5: 120-126, 1930.
- Hypopta agavis**
biAncona, Mex. Univ. Inst. Biol. Anal. 2: 265-277, 1931.
- Hyporhcnoda humillior**
nHebard, Trans. Amer. Ent. Soc. 59: 118-119, 1933.
- Hyposmocoma alliterata**
Swezey, Hawaiian Ent. Soc. P. 8: 221, 1933.
- Hyposmocoma latiflua**
iSwezey, Hawaiian Ent. Soc. P. 8: 201, 1932.
- Hyposmocoma sp.**
nSwezey, Hawaiian Ent. Soc. P. 8: 12, '32.
- Hyposoter disparis viereck**
biMuesebeck & Parker, J. Agr. Res. 46: 335-347, 1933.
- Hyposoter exiguae (Vier.)**
biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 268-269, '31.
- Hyposoter interjectus**
bWilson, Fla. Ent. 17: 3, 1933.
- Hyppa xylinoides**
Phipps, Maine B. 356: 176-177, 1930.
- Hypsoprora nogolata**
Ball, P. Biol. Soc. Wash. 46: 29, 1933.
- Hymnophlaeba brevirostris**
Bequaert, Psyche 37: 295-297, 1930.
- Hyssopus thymus**
bFriend, Ent. Soc. Ont. R. 65: 52, 1934.
- Hysteroneura setariae (Thos.) (Rusty plum aphid)***
Hutson, Mich. Sp. B. 244: 14, 1933.
Snapp, USDA FB 1557 rev.: 36-37, '31.
- Ianassa alpica 55-56, delicatoides 55, pinalensis 55**
nBenjamin, Pan-Pac. Ent. 8: 1931.
- Ibeotettix, I. batesi**
inRehn, P. Acad. Nat. Sci. Phila. 82: 129-132, 1930.
- Icerya littoralis**
bHughes-Schrader, Ann. Ent. Soc. Amer. 23: 371-374, 1930.
biHughes-Schrader, J. Morph. 50: 479-487, 1930.
- Icerya montserratensis**
bHughes-Schrader, Ann. Ent. Soc. Amer. 23: 365-371, 1930.
biHughes-Schrader, J. Morph. 50: 488, 1930.
- Icerya purchasi (Cottony-cushion scale)***
Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(5): 51, 1931.
Boswell, Amer. Fr. Grow. Mag. 51(6): 5, 15, 1931.
- iClark, Tex. C. 67: 47-48, 1933.**
Compere & Smith, Hilgardia 6: 588-589, 1932.
Dominguez, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1932/1933: 151-153.
- iEssig, Hist. of Ent.: 119-123, 1931.**
Gaddis, Ga. St. Bd. Ent. B. 75: 33, 1931.
George, Ariz. Com. Agr. & Hort. R. 19/20: 59-60, 1929.
Hoffman, J. Ec. Ent. 25: 726, 1932.
Howard, Hist. of Appl'd Ent.: 371-372, 1930.
- bHughes-Schrader, Ann. Ent. Soc. Amer. 23: 360-365, 1930.**
Hunt, Ariz. Comm. Agr. & Hort. R. 19/20: 59, 1929.
Lebert, Ariz. Comm. Agr. & Hort. R. 21/22: 97-98, 1931.
Leonard, J. Ec. Ent. 25: 1103-1107, 1932.
- iNewell et al., Fla. B. 221: 59-60, 1930.**
bQuayle, Cal. B. 542: 46-47, 1932.
iSanderson, Ins. Pests Farm ed. 3: 461-462, 1931.
iSchultz, La Hacienda 28: 306, 1933.
Watson, Fla. P. B. 444, 1932, 2p.
iWatson & Berger, Fla. Ext. B. 67: 43-47, 1932.

Icerya purchasi—Parasites

Colon, P.R. Dept. Agr. & Comm. Inf.

An. Span. ed. f. 1931/1932: 43-44.

Leonard, J. Ec. Ent. 25: 1106, 1932.

iPeña, La Hacienda 25: 74, 1930.

iSchultz, La Hacienda 28: 140, 1933.

bSmith, Ann. Ent. Soc. Amer. 26: 520-522, 1933.

Watson, Fla. Grow. 40(5): 22, 1932.

biWolcott & Sein, P.R. Dept. Agr. J. 17: 199-221, 1933.

Hawaiian Ent. Soc. P. 7: 334, 1931.

Iceryini

Hughes-Schrader, Ann. Ent. Soc.

Amer. 23: 359-380, 1930.

Ichneumon irritator

MacAndrews, Ent. Soc. Ont. R. 63: 50, 1932.

Ichneumon sp.

iCommon, Flow. Grow. 18: 79, 1931.

Krijgsman, Pac. Sci. Cong. 5, P. 5: 3359, 1934.

iPeña, La Hacienda 25: 74-75, 1930.

iStep, Bees, Wasp, Ants: 174-183, 1932.

Ichneumonidae

Burkett, Tex. Dept. Agr. B. 111: 211-212, 1932.

Cushman, P. Ent. Soc. Wash. 34: 155-156, 1932.

Cushman, Can. Ent. 65: 24, 1933.

Cushman, PUSNM 82(14): 1933, 16p.

Muesebeck, PUSNM 79(16), 1931, 16p.

nWalley, Can. Ent. 65: 253-261, 1933; 66: 235-241, 1934.

Icius cinctipes

iBryant, B. Mus. Comp. Zool. 74: 193, 1933.

Ictericia christophe

inBates, Bklyn. Ent. Soc. B. 28: 165-167, 1933.

Icthiacris

Hebard, Trans. Amer. Ent. Soc. 58: 267, 1932.

Idechthis sp.

Cushman, Hawaiian Ent. Soc. P. 7: 358, 1931.

Idiomyia grimshawi

nBryan, Hawaiian Ent. Soc. P. 8: 435-436, 1934.

Idionotus similis

inCaudell, Pan-Pac. Ent. 10: 152-153, 1934.

Idionotus siskiyou 48-50, **tehachapi** 52-54, **tuolumne** 50-52

inHebard, Trans. Amer. Ent. Soc. 60: 1934.

Idiopterus nephrolepidis

McDaniel, Mich. Sp. B. 214: 49-50, 1931.

Turner, Conn. B. 315: 615, 1930.

Idiopygus bequaerti, major

nCurran, Amer. Mus. Nov. 738: 3-5, '34.

Idiostatus fuscus, inermis major

inCaudell, Pan-Pac. Ent. 10: 153-156, 1934.

Idiostatus magnificus

inHebard, Trans. Amer. Ent. Soc. 60: 46-48, 1934.

Idiostatus wymorei

inCaudell, Pan-Pac. Ent. 10: 156-158, 1934.

Idiothrips, I. bellus

inFaure, Bklyn. Ent. Soc. B. 28: 59-62, 1933.

Idona

bnDeLong, USDA TB 231: 50-51, 1931.

Iiburnia leahi

Swezey, Hawaiian Ent. Soc. P. 7: 341, 1931.

Illiberis pruni

bClausen, USDA C. 168: 21, 1931.

†Illinoia pisi (Klth.) (Pea aphid)*

Blanchard, USDA C. 307, 1934, 6p.

Blanchard & Dudley, J. Ec. Ent. 27: 262-264, 1934

iBlanchard et al., USDA C. 287, 1933, 24p.

Britton, Conn. B. 344: 137, 1933.

iBurdette & Headlee, N.J. C. 311: 6-7, 1934.

Caesar, Ont. Dept. Agr. B. 359: 56, '31.

Cartwright et al., Cal. Agr. Mo. B. 22: 158, 1933.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 37-38, 1933; Ext. B. 278: 32-33, 1934.

iDoten, Nev. R. f. 1933: 18; R. f. 1933/1934: 33-34.

Drake, Iowa R. f. 1932: 58.

iDudley, Canner 79(24): 12-14, 1934.

Dustan, Can. Dept. Agr. Ent. B. 32: 62-63, 1932.

Gilbert & Popenoe, USDA FB 1371 rev.: 30, 1934.

- Gould, Va. Truck, B. 71: 820-822, '30.
 Hanson, Wash. B. 305: 37, 1934.
 biHoggan, J. Agr. Res. 47: 689-704, '33.
 iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 317-318, 1931.
 iLagloire, Que. Dept. Agr. R. f. 1932/1933: 115.
 iLavoie, Que. Dept. Agr. R. f. 1931/1932: 153-154.
 McDaniel, Mich. Sp. B. 214: 49, 1931.
 Marlatt, USDA Ent. R. f. 1930: 32; R. f. 1931: 38; R. f. 1933: 16.
 biMex. Agr. & Fomento. Principales Plagas: 87-88, 1930.
 Pettit, Mich. R. 46: 232, 1933.
 Raymond, N.Y. (C.) Ext. B. 229: 10, 1932.
 Searls, J. Ec. Ent. 25: 46-49, 1932.
 iSmith, J. Ec. Ent. 25: 157-164, 1932.
 Smith, Kans. Agr. Student 13: 84, 86-87, 1934.
 iSmith, J. Kans. Ent. Soc. 7: 41-42, '34.
 bSorenson, Utah C. 98: 15, 1932.
 Strong, USDA Ent. R. f. 1934: 11.
 Tissot & Thompson, Fla. Ent. 14: 10, 1930.
 Watson, Fla. B. 232: 76-77, 1932.
 Woodbury, Nat. Cannery Assoc. Bur. Raw Prod. Res. Mem. Com. Sci. Res. Jan. 1933: 110-111.
 Illinoisia pisi—Dusting
 iIngerson, Canner 76(20): 7-8, 20, 1933.
 iIngerson, Canning Age 14: 298-299, 1933.
 Illinoisia pisi—Parasites
 Russell, Wis. B. 410: 54, 1930.
 Illinoisia pisi and Entomophthora aphidis
 Canner 79(7): 12, 1934.
 Illinoisia solanifolia see Macrosiphum solanifolia
 Ilybius denikei
 nWallis, Can. Ent. 65: 271-272, 1933.
 *Imbricated snout beetle, see Epicaerus imbricatus
 Immunity of plants, see Plant immunity
 Imperatoppia, I. imparata
 inJacot, Bernice P. Bishop Mus. B. 121: 30-34, 1934.
 *Imperial moth, see Eacles imperialis
 *Imported cabbage worm, see Pieris rapae
 Imported currant borer, see Conopia tipuliformis
 *Imported currant worm, see Pteronidea ribesii
 Imported rose stem girdler, see Agrilus communis abrubicola
 Imported serica, see Serica similis
 Inareolata punctoria
 Cartwright, USDA C. 289: 10-13, '33.
 bClark, USDA TB 455: 20-21, 1934.
 Sachtleben, Internat. Corn Borer Invest. Sci. R. 3: 106, 1930.
 Wishart & Thomas, Ent. Soc. Ont. R. 63: 40-41, 1932.
 Inareolata punctoria—Rearing
 Can. Dept. Agr. Ent. Br. News Letter 14(1-2): 6, 1933.
 Incisalia iroides
 iComstock & Dammers, So. Cal. Acad. Sci. B. 32: 77-79, 1933.
 Incisalia lanoraieensis
 nSheppard, Can. Ent. 66: 141-142, 1934.
 Incisalia spp.
 Rogers, Bklyn. Ent. Soc. B. 29: 184-185, 1934.
 Incurvaria russatella
 biRichards, J. N.Y. Ent. Soc. 41: 167-185, 1933.
 Indian honey bee, see Apis dorsata
 *Indian-meal moth, see Plodia interpunctella
 Indian pod-borer, see Maruca testulalis
 Indian rat flea, see Xenopsylla cheopis
 Indian skipper, see Erynnis sassacus
 Infurcitinea luteella
 nForbes, P.R. Dept. Agr. J. 15: 386-387, 1931.
 nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 386, 1931.
 Infurcitinea palpella
 nForbes, P.R. Dept. Agr. J. 15: 386, '31.
 nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 386, 1931.
 Inimical leaf hopper, see Polyamia inimica
 Innshanotroxis, I. engeli
 nTownsend, J. N.Y. Ent. Soc. 40: 466-467, 1932.
 Insara
 Hebard, Trans. Amer. Ent. Soc. 58: 303, 1932.
 Insectaries
 Essig, Hist. of Ent.: 384-405, 1931.
 Cal. Cult. 74: 179, 1930.

Insectaries—Pacific Regions

Ryan, Los Angeles Co. Comm. Agr.

R. f. 1932: 15.

Smith & Compere, Cal. Cit. 16: 236-237, 1931.

Tillyard, Pac. Sci. Cong. 5, P. 5: 3547-3557, 1934.

Pop. Mech. 55: 555, 1931.

Science 76: 402-403, 1932.

Insectaries—U.S. Sugar Cane Laboratory

Holloway, Sugar B. 10(24): 4, 1932.

Insecticidal plants

Briggs, Virgin Isl. R. f. 1932: 14.

bRoark, J. Ec. Ent. 26: 587-594, 1933.

Roark & Keenan, USDA, Chem. & Soils. Food & Drug Admin. Plants Insecticidal value, Feb. 1931, 22p.

Skinner, USDA YB f. 1931: 318-319.

Spies, J. Ec. Ent. 26: 285-288, 1933.

iWilliams, Pan. Amer. Union B. 67: 659-664, 1933.

Insecticides, *see also* Dusts, Spray materials**†Insecticides**

Agete & Pinero, Rev. de Agr. Cuba 12(9): 35, 1931.

Alden, Ga. St. Bd. Ent. B. 71: 20-22, 1930; B. 73: 28-31, 1930.

bAlvord & Dietz, Indus. & Engin. Chem. 25: 629-633, 1933.

Bartlett et al, Maine Off. Insp. 134: 110-116, 1929; 138: 102-108, 1930; 142: 114-120, 1931; 146: 130-140, 1932; 150: 118-124, 1933; 154: 132-136, 1934.

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 6-14, 1931.

Bowker, Chem. Co. Nassau Co. Farm & Home Bur. News, July, 1933: 8.

iBregger, Northw. Fr. Grow. 3(5): 5, 14, 1931.

Bruner & Arango, Rev. de Agr. Cuba 13: 73-77, Aug. 1932.

Burdette, N.J. R. 50: 184-185, 1929.

Caesar, Ont. B. 356: 8-10, 1930.

Chambers, Wis. Dept. Agr. B. 141: 91, 1933.

Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 106-110, 1930.

Compton, Ill. C. 391: 43-46, 1932.

Cook & Walker, Va. Truck B. 79: 1064-1065, 1932.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 98-101, 1933.

Curtiss, Iowa R. f. 1930: 30-31.

Davis, Ind. Ext. B. 186: 2-4, 1932.

iDavis, Purdue Univ. B. 32(7): 1932, 56p.

Doane, Common Pests: 107-116, 313-314, 1931.

Dominguez, P.R. Dept. Agr. & Comm. Inf. An. Span. ed. f. 1932/1933: 180-181.

Draper, Ariz. Ext. C. 83, 1934, 4p.

Essig, Hist. of Ent.: 403-501, 1931.

Farman & Turner, Can. Hort. Fr. ed. 57: 149-150, 1934.

Felt & Bromley, J. Ec. Ent. 25: 298-304, 1932.

Felt & Bromley, Nat. Shade Tree Conf. P. 7: 115-121, 1931.

Ficht, J. Ec. Ent. 26: 747-754, 1933.

Flint, Iowa St. Hort. Soc. Trans. 65: 93-102, 1930.

Flint, J. Ec. Ent. 23: 404-406, 1930.

iGilbert & Popenoe, USDA FB 1371 rev.: 41-43, 1930; rev.: 40-43, 1934.

bGimingham, Pac. Sci. Cong. 5, P. 5: 3423-3437, 1934.

Godbout, Que. Min. de l'Agr. B. 124: 7-11, 1933.

Harned, USDA YB f. 1933: 131-132.

Haseman & Johnson, Missouri B. 328: 29, 1933.

Hayes et al, Oil, Paint & Drug Report 124(24): 17, 26, 1933.

Hermann, Ent. Soc. Ont. R. 60: 59-63, 1930.

Herrick, Iowa Hort. Assoc. Trans. 67: 100-103, 1932.

Hinds, Extermin. Log. 1(4): 7, 14, '33.

Hodgkiss, Penn. St. Hort. Assoc. P. 73: 31-32, 1932.

Hooker, USDA OES R. on Exp. Sta. f. 1931: 50, 1932.

Howard, Hist. of Appl'd Ent.: 63-65, 1930.

Howard, Insect Menace: 274-289, '31.

Huckins, Soap 9(2): 93, 1933.

Kerr, La. Com. Agr. & Immig. Bien. R. 26: 18, 1934.

Knight, USDA YB f. 1933: 363-364.

Lipman, N.J. R. 50: 29, 1929.

- Maheux, Que. Min. de l'Agr. B. 118: 6-11, 1933.
- Marlatt, USDA Ent. R. f. 1930: 6-8; R. f. 1931: 63-64.
- iMayor, Nat. & Amer. Miller 62(3): 39-40, 1934.
- biMetcalf & Flint, Fund. of Ins. Life, ed. 1: 366-389, 1932.
- iMumford, Ill. R. 42: 140, 1929; R. 45: 136-137, 1932.
- bMurphy & Peet, Soap 10(1): 95, 97, 99, 101, 103, 1934.
- Pickett & Filinger, Kans. C. 169: 21-23, 1932.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins Notes 2(12): 1-3, 1931.
- iRichardson, Iowa Dept. Agr. YB 30: 44-56, 1930.
- Richardson, Iowa R. f. 1931: 62.
- Richardson, Iowa R. f. 1934: 96-97.
- Roark, J. Chem. Ed. 7: 2301-2306, '30.
- bRoark, Nat. Res. Coun. Ann. Surv. Amer. Chem. 4: 358-382, 1930; 5: 398-421, 1931; 6: 380-407, 1932; 8: 221-242, 1934.
- Shutt, Can. Dept. Agr. Exp. Farms Div. Chem. R. f. 1929: 59-64, 1930.
- Strong, USDA Ent. R. f. 1934: 9-10.
- Talbert, Haseman & Swartwout, Missouri C. 177, 1934, 8p.
- Weir, Can. Min. Dept. Agr. R. f. 1933/1934: 62.
- Wizeman & Kiefer, U.S. Bur. For. & Dom. Comm. R. f. 1931, no. 18: 284-286.
- biWolcott, Ec. Ent. of West Indies: 71-100, 411-426, 1933.
- Wymore, Cal. Agr. Mo. B. 20: 185-188, 1931.
- Zappe, Conn. B. 349: 449-450, 1933.
- Insecticides—Aliphatic thiocyanates**
Murphy & Peet, Indus. & Engin. Chem. 25: 638-639, 1933.
- Insecticides—Anabasine**
Garman, Conn. B. 349: 433-434, 1933.
- bRoark, Pac. Sci. Cong. 5, P. 5: 3409, 1934.
- Insecticides—Analysis**
iCathcart & Willis, N.J. B. 513, 1930, 16p.; B. 530, 1931, 16p.; B. 548, 1932, 15p.; B. 556, 1933, 18p.; B. 577, 1934, 14p.
- iGraham, Assoc. Off. Agr. Chem. J. 13: 156-159, 1930; 14: 121-126, 1931; 15: 132-136, 1932; 16: 151-152, 1933; 17: 147-148, 1934.
- bLandis & Wichmann, Indus. & Engin. Chem. Anal. ed. 2: 394-397, 1930.
- Robinson, Oreg. C. 95, 1929, 19p.
- Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 142-143, 1932.
- N.Y. Dept. Agr. & Markets B. 250: 3-6, 8-26, 1931.
- Insecticides—Antidotes**
Extermin. Log 2(4): 10-11, 1934.
- Insecticides—Aphicides**
iGarman, Conn. B. 360: 458-461, 1934.
- Tissot & Thompson, Fla. Ent. 14: 7-12, 1930.
- Insecticides—Argentine ant poison**
iHaug, Ann. Ent. Soc. Amer. 27: 621-632, 1934.
- Insecticides—Arsenates**
Essig & Hopkins, Cal. Ext. C. 87: 107-110, 1934.
- Oil, Paint & Drug Report 121(21): 23, 1932.
- Insecticides—Arsenic**
Deemer & Schricker, Assoc. Off. Agr. Chem. J. 16: 226-232, 1933.
- Gui, Ohio Bi-Mo. B. 156: 104-111, '32.
- Illingworth, Hawaiian Ent. Soc. P. 7: 414, 1931.
- Kilgore, Fla. Grow. 40(10): 16, 1932.
- Stoddart, Riddell & Bulmer, Can. Med. Assoc. J. 27: 264-266, 1932.
- iSturmer, Amer. J. Pharm. 104: 758-775, 1932.
- Travis & Decker, Iowa J. Sci. 7: 493-498, 1933.
- bTyler & Petar, U.S. Bur. Mines Ec. Paper 17, 1934, 35p.
- biWebster & Marhsall, Wash. B. 293, 1934, 31p.
- Insecticides—Arsenic—Legislation**
Miles, Cit. Ind. 14(9): 9, 1933.
- Insecticides—Arsenic—Toxicity**
Emerson, Mich. St. Hort. Soc. R. 63: 95-97, 1934.
- Griffith, Amer. J. Pharm. 104: 504, '32.
- biHoskins & Harrison, J. Ec. Ent. 27: 924-942, 1934.

- Insecticides—Arsenic—Toxicity to birds**
 Barber & Hubster, Vet. Med. 28: 500-502, 1933.
- biWhitehead, Okla. B. 218, 1934, 54p.
- Insecticides—Arsenic—White, see Insecticides—Arsenious oxide**
- Insecticides—Arsenic in poisoned insects**
 Fink, Sci. News Letter 23: 24, 1933.
- iHopper, J. Ec. Ent. 26: 292, 1933.
- Insecticides—Arsenicals**
 bDearborn, J. Ec. Ent. 23: 630-635, '30.
 Driggers & Pepper, J. Ec. Ent. 27: 249-258, 1934.
 Hockett, J. Ec. Ent. 25: 620-625, 1932;
 27: 156-161, 1934.
 Lavoie, Que. Dept. Agr. R. f. 1929/
 1930: 152.
 Mateos, Agr. Mex. 1: 195-196, 1934.
 Parfentjev, J. Ec. Ent. 24: 1261-1263, 1931.
- bRoark, Pac. Sci. Cong. 5, P. 5: 3405-3406, 1934.
- Stearns et al., Peninsula Hort. Soc. P. 47: 20-28, 1933.
- Wymore, Cal. Agr. Mo. B. 20: 185-186, 1931.
- N.Y. Dept. Agr. & Markets B. 250: 3, 8-10, 1931.
- Insecticides—Arsenicals—Injury**
 iCutright, J. Ec. Ent. 27: 417-420, 1934.
- Headlee, N.J. R. 51: 159-160, 1930.
- Potts, J. Ec. Ent. 23: 469-470, 1930.
- Insecticides—Arsenicals—Substitutes**
 iCates, Country Gentl. 103(3): 9, 40, '33.
- bHeadlee, J. Ec. Ent. 27: 148-154, 1934.
- Hockett, J. Ec. Ent. 27: 156-161, 1934.
- Marcovitch & Stanley, J. Ec. Ent. 23: 370-376, 1930.
- Marcovitch & Stanley, Tenn. St. Hort. Soc. R. 27: 86-92, 1931.
- Stearns et al., Peninsula Hort. Soc. Trans. 47: 20-28, 1932.
- Strong, USDA Ent. R. f. 1934: 11-12.
- Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 244-245, 1932.
- Insecticides—Arsenicals—Toxicity**
 bDeEds, J. Ec. Ent. 26: 302-304, 1933.
 Webster & Marshall, Wash. B. 291: 32-33, 1934.
- Insecticides—Arsenious oxide**
 Buchanan & Stevenson, Iowa R. f. 1933: 74.
- Essig, Hist. of Ent.: 431-433, 1931.
- Kelsall, Ent. Soc. Ont. R. 65: 76-78, 1934.
- bPearson & Richardson, J. Ec. Ent. 26: 486-493, 1933.
- Pemberton, Hawaiian Sugar Pl. Assoc. P. 52: 131-132, 1933.
- biRichardson & Haas, J. Ec. Ent. 25: 1078-1088, 1932.
- Insecticides—Arsenite of soda**
 McDaniel, Mich. Sp. B. 214: 9, 1931.
- Insecticides—Arsenite of zinc**
 Essig, Hist. of Ent.: 437-438, 1931.
- Insecticides—Bait, see Insecticides—Poison Bait**
- ‡**Insecticides—Barium fluosilicate**
 Becnel, La. R. f. 1929-1931: 89.
 Boyce, Diamond Walnut News 12(4): 7, 1930.
 Brannon, J. Ec. Ent. 27: 1103, 1934.
- Carter, J. Ec. Ent. 25: 1242-1243, '32.
- Chamberlin, J. Ec. Ent. 25: 135, 413, 1932; 26: 233-236, 1933.
- bDietz & Zeisert, J. Ec. Ent. 27: 73-78, 1934.
- Ficht, J. Ec. Ent. 26: 749, 1933.
- Friend, Conn. Veg. Grow. Assoc. R. 19: 25-27, 1932.
- iLacroix, Conn. B. 326: 423, 1931; B. 350: 489-491, 1932.
- MacIntire, Tenn. R. 44: 37, 1931.
- Marcovitch, Tenn. R. 42: 33, 1929; R. 44: 46, 1931; R. 46: 42, 1933.
- iMarcovitch & Stanley, Indus. & Engin. Chem. 22: 121-127, 1930.
- iMarcovitch & Stanley, Tenn. C. 38, 1931, 2p.
- Metzger, J. Ec. Ent. 26: 205-210, 1933.
- Quayle, Cal. Avocado Assoc. YB f. 1932: 39.
- Robinson, Ala. Poly. R. 44: 28, 1933.
- iSadtler, Chem. & Metall. Engin. 37: 90, 1930.
- Skinner, Ind. R. 47, 1934, 37p.
- Skinner & Coleman, Ind. Ext. R. 23: 51, 1934.
- J. Ec. Ent. 24: 20, 1931.
- Insecticides—Bases**
 Gothard, Soap 8(6): 103, 105, 107, '32.
- Insecticides—Benzol**
 Sanders & Tissot, Fla. P.B. 465, 1934, 2p.

- Insecticides—Bichloride of mercury, see**
Insecticides—Mercuric chloride
- Insecticides—Black leaf forty**
 Claiborne, Man. Gardening, 160: 1932,
 Crumb, W. Wash. Hort. Assoc. P. 25:
 14, 1934.
 Rhodes, Market Grow. J. 50: 82, 1931.
 Scott, Kans. St. Hort. Soc. Bien. R. 41:
 202, 1932.
 Tissot, Fla. Grow. 40(12): 23, 1932.
 Van Hermann, La Hacienda 25: 332-
 334, 1930.
- Insecticides—Black leaf 50**
 Market Grow. J. 51: 368, 1932.
- Insecticides—Borax**
 bSchwardt, J. Ec. Ent. 23: 401-404, '30.
 Sherman, S.C. Wkly. News Notes 18:
 47, 1930.
- Insecticides—Bordeaux mixture**
 Barrus & Crosby, N.Y. (C.) Ext. B.
 238: 17, 1932.
 bBonde, Maine B. 362: 191-193, 208-
 210, 1932.
 Crosby & Chupp, N.Y. (C.) Ext. B.
 206 rev.: 98, 1933; B. 278: 83-84, '34.
 DeLong, Ohio Veg. Grow. Assoc. P. 15:
 37-41, 1930.
 iDemaree, Amer. Nut. J. 32(3): 38-39,
 1930.
 Demaree, USDA FB 1672: 23, 1931.
 bDemaree & Large, Southeast. Pecan
 Grow. Assoc. P. 28: 20-29, 1934.
 Eddy et al, Ky. B. 353: 207, 1934.
 Essig & Hoskins, Cal. Ext. C. 87: 114-
 115, 1934.
 Hockenyos, Phytopath. 21: 231-234,
 1931.
 Hockenyos & Irwin, Phytopath. 22:
 857-860, 1932.
 Keitt et al., Wis. Hort. 22: 286, 1932.
 Kennedy, Iowa St. Hort. Soc. Trans.
 65: 347, 1930.
 Mayo, Fla. Dept. Agr. Quar. B. 40(1):
 27-28, 1930.
 bMoznette, J. Ec. Ent. 23: 691-699, '30.
 iSherwood, W.Va. Ext. C. 294: 27-31,
 1930.
 Stear, J. Ec. Ent. 25: 932-933, 1932.
 Trent, Okla. Coop. Ext. C. 168 rev.:
 6-7, 1930.
 Watson, Fla. B. 232: 15-16, 1931.
 Weber, Fla. P. B. 453, 1933, 4P.
- Wilson & Runnels, Ohio Bi-Mo. B.
 19(169): 158-163, 1934.
- Insecticides—Bordeaux mixture—Injury**
 Wilson, Ohio Veg. Grow. Assoc. P. 19:
 33-39, 1934.
 iWilson & Runnels, Ohio Bi-Mo. B. 17:
 4-15, 1933.
- Insecticides—Bordeaux mixture—Reac-**
tion to plant sap
 biDeLong et al., J. Ec. Ent. 23: 383-390,
 1930.
- Insecticides—Bordeaux mixture and arse-**
nate of lead—Analysis
 Bubb, Assoc. Off. Agr. Chem. J. 14:
 260-262, 1931.
- Insecticides—Bordeaux mixture, pow-**
dered bluestone & hydrated lime
 Demaree, Nat. Pecan Exch. News 7(4):
 7, 1930.
- Insecticides—Bordeaux mixture vs. Sul-**
phur pyrethrum
 DeLong, Ohio Veg. Assoc. P. 19: 80-91,
 1934.
- Insecticides—Bordeaux mixture with lu-**
bricating-oil emulsion
 biPorter & Szazama, J. Agr. Res. 40: 755-
 766, 1930.
- Insecticides—Burgundy vs. Bordeaux**
mixture
 Kendall, N.H. B. 280: 19, 1934.
- Insecticides—Cadmium—Toxicity**
 Ginsburg, Science n.s. 80: 269, 1934.
- Insecticides—Calcium arsenate**
 biChapman et al, J. Ec. Ent. 27: 421-
 431, 1934.
 Cory, J. Ec. Ent. 27: 509-514, 1934.
 Crosby & Chupp, N.Y. (C.) Ext. B.
 206 rev.: 101, 1933; B. 278: 83, 1934.
 Douglass, N.Mex. B. 199, 1932, 14P.
 Eddy et al, Ky. B. 353: 206, 1934.
 iElmore, J. Ec. Ent. 26: 1095-1105, '33.
 biElmore, Davis & Campbell, USDA TB
 447: 24-25, 1934.
 Essig, Hist. of Ent.: 436-437, 1931.
 Fluke, Wis. Hort. 24: 29, 1933.
 Gui, Ohio Bi-Mo. B. 156: 109, 1932.
 Gui, Ohio Wkly. P. B. 17(10), 1932.
 Hinds, J. Ec. Ent. 23: 672-676, 1930.
 Hope, Cal. Dept. Agr. Sp. Pub. 115:
 159, 1932.
 Howard & Fletcher, J. Ec. Ent. 26: 914,
 1933.

Insecticides—Calcium arsenate *Cont'd*

Johnston, Mich. Sp. B. 252: 42-43, '34.
Lutken, S.C. Wkly. News Notes 19: 51,
1931.

Mote & Thompson, Ohio C. of Inf. 89,
1933, 2p.

Mote & Thompson, Pac. Sci. Cong. 5,
P. 5: 3413, 3416, 1934.

Robinson & Arant, Ala. R. 41: 30-31,
1931.

Ruggles, Minn. Hort. 59: 152, 1931.

iSadtler, Chem. & Metall. Engin. 37:
90, 1930.

bSmith & Murray, Indus. & Engin.
Chem. 23: 207-208, 1931.

Insecticides—Calcium carbonate

de Ong, J. Ec. Ent. 27: 1131-1132, '34.

de Ong, Science n.s. 79(2043 sup.): 5-6,
1934.

Insecticides—Calcium carbonate and sodium arsenate

Nichol, Ariz. B. 138: 643-647, 1931.

Insecticides—Calcium chloride

Prieto, Rev. Unidas 49(4): 31-32, 1933.

Insecticides—Calcium cyanide

Blanchard, USDA C. 307: 4-5, 1934.

Clark, Tex. R. 47: 238, 1934.

iLacroix, Conn. B. 359: 380-382, 1934.

McDaniel, Mich. Quar. B. 15(3): 171,
1933.

Watson, Fla. Grow. 40(7): 16, 1932.

Insecticides—Calcium cyanide and linseed oil

Petch, Que. Soc. f. Prot. Pl. R. 22: 35-
36, 1931.

Petch, J. Ec. Ent. 25: 121-122, 1932.

Insecticides—Calcium fluosilicate

Baerg, Ark. B. 280: 41-42, 1932.

Carter, J. Ec. Ent. 25: 707-709, 1932.

Insecticides—Calcium sulphide

Hurt, Va. St. Hort. Soc. P. 34: 159-167,
1929.

Insecticides—Calomel

bFriend, Conn. B. 338: 588-592, 1932.

iGlasgow, J. Ec. Ent. 27: 306-308, 1934.

Hedrick, N.Y. (Gen.) R. 51: 65-66, '32.

Insecticides—Calomel and gypsum dust

Friend, Conn. Veg. Grow. Assoc. R. 20:
69, 1933.

Insecticides—Caproic acid

biO'Kane et al., N.H. TB 58: 25-35, 1934.

Insecticides—Carbolic acid emulsion

Essig, Hist. of Ent.: 414-415, 1931.

Watson, Fla. Grow. 41(5): 12, 1933.

Insecticides—Carbon bisulphide

Anderson, Can. Dept. Mines Nat. Mus.

B. 69: 14, 67, 1932.

Cameron, Can. Dept. Agr. B. 152: 14,
1931.

Chadwick, Flor. Rev. 70(1805): 64,
1932.

Essig, Hist. of Ent.: 457-459, 1931.

Essig & Hoskins, Cal. Ext. C. 87: 113,
1934.

Gardner, Mich. Bien. R. f. 1933/1934:
29.

iGilbert & Popenoe, USDA FB 1371
rev.: 10, 1934.

bGuba, Mass. B. 292, 1932, 16p.

Haseman, Mo. B. 272: 58, 1929.

bJones, J. Ec. Ent. 26: 887-892, 1933.

iLane, J. Ec. Ent. 25: 958-967, 1932.

Lane & Gibson, J. Ec. Ent. 25: 958-
967, 1932.

Marlatt, USDA Ent. R. f. 1932: 14.

Ruffin, South. Cult. 89(10): 11, 1931.

Synder, USDA FB 1472 rev.: 19, 1934.

Thomas, Penn. B. 293: 21, 1933.

Insecticides—Carbon bisulphide emulsion

Guba, Mass. B. 280: 205, 1932.

iHamilton & Henderson, Amer. Orchid
Soc. B. 2: 47, 1933.

iHansen, Nature Mag. 16: 303, 1930.

McDaniel, J. Ec. Ent. 25: 732, 1932.

McDaniel, Mich. Quar. B. 15(3): 171,
1933.

Insecticides—Carbon disulphide, *see* Insecticides—Carbon bisulphide**Insecticides—Carbon tetrachloride**

Herrick & Griswold, J. Ec. Ent. 25:
243-248, 1932.

Hirscher, J. Amer. Vet. Med. Assoc. 79:
251, 1931.

iHirscher, Allied Vet. 3(1): 13, 1932.

Insecticides—Carboxide

biBrown, U.S. Nav. Med. B. 31: 253-268,
1933; B. 32: 294-317, 1934.

Insecticides—Castor bean plant

Landreth, Hort. n.s. 10: 74, 1932.

Nissley, Gard. Chron. Amer. 38: 244,
1934.

Insecticides—Cedar chests

Sci. Amer. 150: 311, 1934.

Insecticides—Cedar oil

iBillings, J. Ec. Ent. 27: 401-405, 1934.

Insecticides—Charcoal

Mason, Rockefeller Found. R. f. 1931: 66.

Insecticides—Chemicals

Carter, J. Ec. Ent. 25: 1224-1227, 1932.

Hutchison, Cal. R. f. 1931/1932: 60-61, 1933.

iKotlan & Varga, Internat. Corn Borer Invest. Sci. R. 3: 81-90, 1930.

O'Kane, J. Ec. Ent. 25: 232-234, 1932.

iO'Kane et al., N.H. TB 54, 1933, 23p.

Insecticides—Chlorides

Thomas, Cal. Avocado Assoc. YB f. 1932: 48-49.

Insecticides—Chloropicrin

biJohnson & Godfrey, Indus. & Engin. Chem. 24: 311-313, 1932.

Johnson & Godfrey, Facts about Sugar 27: 179, 1932.

bStone & Campbell, J. Ec. Ent. 26: 237-243, 1933.

Insecticides—Classification

Quaintance & Siegler, USDA FB 1666: 5-6, 1931.

Insecticides—Coal-tar dyes

biCampbell, J. Ec. Ent. 25: 905-917, '32.

Insecticides—Coal tar oil

Eddy et al., Ky. B. 353: 211, 1934.

Insecticides—Cocoa & borax

McComb, Libraries 35: 190, 1930.

Insecticides—Coconut oil soap

Mohler, USDA BAI R. f. 1934: 52.

Insecticides—Cocoanut oil fatty acid, Distilled

iO'Kane et al., N.H. TB 54: 7-11, 1933.

Insecticides—Colloidal sulphur

Alexander & Young, Science n.s. 74: 314-315, 1931.

Insecticides—Coloring

Skinner, Ind. R. 46: 29, 1933.

Watson, J. Ec. Ent. 25: 733-734, 1932.

Insecticides—Commercial

Bourne, Mass. B. 305: 28-30, 1934.

Fisher & Bailey, Conn. B. 346: 209-268, 1933.

Insecticides—Commercial miscible oil

Eddy et al., Ky. B. 353: 211, 1934.

Flint & Mohr, Ill. B. 359: 377-378, '30.

Insecticides—Compatibility

Draper, Ariz. Ext. C. 83, 1934, 4p.

†Insecticides—Contact

iAmstein, Ark. Ext. C. 330: 4, 1934.

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 6-14, 1931.

biBreakay, J. Ec. Ent. 27: 393-398, 1934.
Caesar, Ont. Dept. Agr. B. 359: 3-5, 1931.

Chambers & Thompson, Wis. Dept. Agr. B. 145: 11, 1933.

Cory & Langford, Md. Ext. Serv. B. 68: 12-13, 1933.

Coulson, J. Agr. & Hort. 33: 173, 1933.

Davis, Purdue Univ. B. 32(7): 24-27, 1932.

Delaplane, Purdue Agr. 28: 52, 58, '34.
Drake & Guthrie, Iowa Dept. Agr. YB 31: 19-26, 1931.

iDustan, Can. Dept. Agr. B. n.s. 161: 6-8, 1932.

iFleming & Baker, J. Agr. Res. 49: 29-38, 1934.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 7-8, 1934.

bGimingham, Pac. Sci. Cong. 5, P. 5: 3423-3425, 1934.

bGinsburg & Schmitt, J. Ec. Ent. 25: 918-922, 1932.

Gould, Minn. Hort. 60: 136-138, 1932.

Kendall, N.H. B. 270: 11, 1933; B. 280: 18-19, 1934.

iLaHue, Purdue Agr. 28: 62, 67, 1934.

Mex. Agr. & Fomento. Principales Plagas: 251-255, 1930.

iMunro & Riddle, N.Dak. C. 42 rev.: 6-7, 1933.

biO'Kane & Conklin, N.H. TB 40, 1930, 15p.

O'Kane et al., N.H. B. 256: 17, 1931.

iO'Kane et al., N.H. TB 46, 1931, 8p.; TB 51, 1932, 20p.; TB 54, 1933, 23p.

Potter et al., N.H. Ext. B. 47: 49-50, 1934.

Richardson, Iowa R. f. 1934: 96-97.

bRoark, Indus. & Engin. Chem. 24: 647, 1932.

Sanderson, Insect Pests Farm ed. 3: 40-49, 1931.

bThomas, Penn. B. 259: 6-7, 1930.

biWilcoxon & Hartzell, Boyce Thompson Inst. Contrib. 3: 1-12, 1931.

Wolters, Hawaiian Pl. Rec. 38: 267-268, 1934.

- Insecticides—Contact** *Cont'd*
 South. Plant. 95(4): 6, 8, 1934.
- Insecticides—Contact—Tests**
 Hamilton, N.J. R. 50: 179-180, 1929.
 Hamilton, N.J. Dept. Ent. R. f. 1929:
 179-180, 1930.
- Insecticides—Contact—Tracheal penetration**
 Hartzell, Nat. Shade Tree Conf. P. 7:
 60-66, 1931.
- Insecticides—Copper—Toxicity**
 biDeLong et al., J. Ec. Ent. 23: 390-394,
 1930.
- Insecticides—Copper carbonate**
 Boyce, Diamond Walnut News 12(4):
 7, 1930.
 iMiller & McBride, J. Ec. Ent. 24:
 1119-1131, 1931.
- Insecticides—Copper compounds**
 biDarby & Kapp, USDA TB 444: 7-10,
 1934.
- Insecticides—Copper lime dust**
 Crosby & Chupp, N.Y. (C.) Ext. B. 206
 rev.: 99, 1933; B. 278: 84, 1934.
 Gui, Ohio Bi-Mo. B. 156: 108, 1932.
- Insecticides—Corrosive sublimate, see Insecticides—Mercuric chloride**
- Insecticides—Cost**
 Friend, Conn. Veg. Grow. Assoc. R. 19:
 30-33, 1932.
 Bur. Farm. 9(9), Minn. Farm Bur.
 Sect.: 7, May, 1934.
 Soap 9(2): 85, 1933.
- Insecticides—Course for pharmacists**
 Davis, J. Ec. Ent. 26: 687-689, 1933.
- Insecticides—Cracca virginiana, see Insecticides—Tephrosia virginiana**
- Insecticides—Creolin**
 Bishopp, N.J. Mos. Extermin. Assoc.
 P. 19: 34-35, 1932.
- Insecticides—Creosote oil**
 Scouller et al., Pub. Works 62(12): 56,
 1931.
- Insecticides—Creosoted pine sap**
 J. Ec. Ent. 25: 946, 1932.
- Insecticides—Cresylic acid**
 Sherwood, W.Va. Ext. C. 304: 29-30,
 1934.
- Insecticides—Crude oil emulsions**
 Essig, Hist. of Ent.: 413-414, 1931.
- Insecticides—Cryolite**
 Boyce, Diamond Walnut News 12(4):
 7, 1930.
 biDeLong, Ohio J. Sci. 34: 175-200, 1934.
 Hough, Peninsula Hort. Soc. Trans. 48:
 12, 1934.
 Lacroix, Conn. B. 326: 423, 1931.
 Marcovitch, Tenn. R. 42: 33, 1929; R.
 44: 44, 46, 1931.
 iMarcovitch & Stanley, Indus. & Engin.
 Chem. 22: 121-127, 1930.
- Insecticides—Cryolite and barium fluosilicate**
 Marcovitch, Tenn. R. 42: 33, 1929.
- Insecticides—Cryolite and talc**
 Marcovitch, Tenn. R. 43: 36-37, 1930.
- Insecticides—Cube**
 A.E.B., Sci. Amer. 143: 390-391, 1930.
 Roark, Soap 6(1): 109, 1930.
- Insecticides—Cube extract and rotenone**
 J. Ec. Ent. 26: 927-928, 1933.
- Insecticides—Cyanide**
 Campbell, Pac. Rur. Press 121: 474,
 1931.
- Insecticides—Cyanogas**
 Blackwell, Okla. R. f. 1926/1930: 268-
 269.
 Stevens, Market Grow. J. 46: 2, 1930.
- Insecticides—Deguelin**
 bClark, Amer. Chem. Soc. J. 53: 313-
 317, 729-732, 2007-2008, 2369-2373,
 3431-3436, 1931; 54: 3000-3008, '32.
 bClark, Science n.s. 73: 17-18, 1931.
 bClark & Keenan, Amer. Chem. Soc. J.
 55: 422-423, 1933.
 bGersdorff, Amer. Chem. Soc. J. 53:
 1897-1901, 1931.
 Hyde, USDA YB f. 1933: 33.
- Insecticides—Dendrol**
 iStandard Oil Co. Tech. Div. B. 141-B:
 18-22, 1931.
- Insecticides—Derris**
 Briggs, Virgin Isl. R. f. 1932: 14.
 iCameron, J. Agr. & Hort. 37(9): 20-21,
 1934.
 Campbell, Sullivan & Jones, Soap
 10(3): 81-83, 85, 87, 103, 105, 107,
 1934.
 Clark, USDA Off. Rec. 9(17): 8, 1930.
 bClark & Keenan, Amer. Chem. Soc. J.
 55: 422-423, 1933.

- Crumb, W. Wash. Hort. Assoc. P. 25: 14, 1934.
- Davidson et al., Oil, Paint & Drug Report 117(16): 38C, 1930.
- Dean, Kans. St. Hort. Soc. Bien. R. 42: 89-93, 1934.
- Delaplane, Purdue Agr. 28: 52, 58, '34.
- bDeOng, J. Ec. Ent. 23: 619-624, 1930.
- Ficht, J. Ec. Ent. 26: 753, 1933.
- bGinsburg et al, N.J. B. 576, 1934, 23p.
- bGorham, Que. Soc. Prot. Pl. R. 25/26: 93-96, 1934.
- biHaag, J. Pharm. & Exp. Therap. 43: 193-208, 1931.
- Huckett, Farm. Res. 1(1): 4-7, 1934.
- Huckett, J. Ec. Ent. 27: 440-445, 1934.
- biJones et al., J. Ec. Ent. 26: 451-470, '33.
- Lipman, N.Y. R. 55: 43-44, 1934.
- McC Campbell, J. Col-Wyo. Acad. Sci. 1(6): 73, 1934.
- Roark, J. Ec. Ent. 24: 328, 1931; 25: 1244-1245, 1932.
- Stevenson, Ent. Soc. Ont. R. 65: 81-83, 1934.
- Walker & Anderson, J. Ec. Ent. 27: 388-393, 1934.
- Watson, Fla. B. 232: 13, 1931.
- iU.S. Commerce R. f. 1931, no. 23: 596.
- USDA Off. Rec. 10: 225, 1931.
- Insecticides—Derris—Bibliography**
- Roark, USDA Misc. Pub. 120, 1932, 86p.
- Insecticides—Derris—Derivatives**
- Knight, USDA Bur. Chem. & Soils R. f. 1934: 26.
- Insecticides—Derris—Patents**
- Roark, Soap 6(1): 105, 107, 109, 1930.
- Insecticides—Derris—Toxicity**
- Ginsburg, J. Ec. Ent. 27: 393, 1934.
- Ginsburg, Schmitt & Granett, J. Ec. Ent. 27: 446, 1934.
- bGinsburg et al., N.J. B. 576: 5-16, 1934.
- Insecticides—Derris and sulphur**
- Clark, Tex. R. 47: 238, 1934.
- Roney, Tex. R. 47: 51, 1934.
- Insecticides—Derris root residue**
- Ginsburg, J. Ec. Ent. 27: 393, 1934.
- bGinsburg & Granett, N.J. B. 576: 17-22, 1934.
- Insecticides—Derris vs. pyrethrum**
- Hamilton & Gemmell, J. Ec. Ent. 27: 446-453, 1934.
- Swingle, J. Ec. Ent. 27: 1101-1102, '34.
- Insecticides—Derrisol**
- McDaniel, Mich. Sp. B. 214: 11-12, 1931.
- Parrott & Glasgow, N.Y. (Gen.) B. 582: 23, 1930.
- Insecticides—Developments**
- Knight, Northw. Fr. Grow. 5(11): 5, 1933.
- Knight, Mountaineer Grow. 5(47): 40-44, 1934.
- bRoark, Pac. Sci. Cong. 5, P. 5: 3405-3410, 1934.
- Amer. Nurserym. 58: 16, 1933.
- Insecticides—Devil's shoe string, see Insecticides—Tephrosia virginiana**
- Insecticides—Diatomaceous earth**
- iSmith, USDA C. 301: 6, 1933.
- Insecticides—Digitalis**
- La Hacienda 25: 416-418, 1930.
- Insecticides—Directory of manufacturers**
- Headlee, J. Ec. Ent. 26: 689-691, 1933.
- Insecticides—Distillate emulsion**
- Essig, Hist. of Ent.: 410-413, 1931.
- Insecticides—Dutox, see Insecticides—Barium fluosilicate**
- Insecticides—Effect on humans**
- J. Amer. Med. Assoc. 101: 126-127, '33.
- Insecticides—Electrification**
- Herman, Ent. Soc. Ont. R. 60: 61, '30.
- Insecticides—Ethylene dichloride**
- Gersdorff, USDA Misc. Pub. 117, 1932, 60p.
- Herrick & Griswold, J. Ec. Ent. 25: 243-248, 1932.
- Insecticides—Ethylene-dichloride—Carbon-tetrachloride**
- Betten, N.Y. (C.) R. 45: 122-123, 1932.
- Insecticides—Ethylene oxide**
- bHorsfall, J. Ec. Ent. 27: 405-409, 1934.
- Lindgren, J. Ec. Ent. 25: 138-139, '32.
- Mackie, Cal. Agr. Mo. B. 18: 757-758, 1929.
- Insecticides—Ethylene oxide and carbon dioxide**
- Gray, Que. Soc. Prot. Pl. R. 25/26: 51, 1934.
- Insecticides—Experiments**
- Lacroix, Conn. B. 326: 421-423, 1931.
- Mariatt, USDA Ent. R. f. 1932: 25-26.
- bNewcomer & Yothers, USDA TB 281, 1932, 29p.

- Insecticides—Fakes, *see* Insecticides—Legislation—Fakes**
- Insecticides—Farm market**
Kircher, Soap 9(7): 93, 95, 97, 1933.
- Insecticides—Ferric oxide, hydrated**
bGinsburg & Mann, J. Ec. Ent. 24: 695-701, 1931.
- Insecticides—Flotation sulphur-oil dust**
Sauchelli, Tenn. St. Hort. Soc. P. 28: 37, 1932.
- Insecticides—Fluoaluminates**
iGross & Fahey, Northw. Fr. Grow. 2(32/33): 7, 1930.
- Insecticides—Fluorine**
Carter, Cal. Agr. Mo. B. 19: 215, 1930.
Carter, USDA Off. Rec. 2(16): 8, 1930.
biPhillips, Hart & Bohstedt, Wis. Res. B. 123, 1934, 30p.
- Insecticides—Fluorine—Analysis**
iShuey, Assoc. Off. Agr. Chem. J. 14: 126-132, 1931.
Smith, Hamilton & Graham, Assoc. Off. Agr. Chem. J. 14: 253-260, 1931.
Wichmann & Dahle, Assoc. Off. Agr. Chem. J. 16: 612-624, 1933.
- Insecticides—Fluorine and arsenicals—Toxicity**
biSmyth & Smyth, Indus. & Engin. Chem. 24: 229-232, 1932.
- Insecticides—Fluorine compounds**
iCarter, J. Ec. Ent. 25: 1224-1227, 1932.
biDeLong, Ohio J. Sci. 34: 175-200, 1934.
Eddy et al, Ky. B. 353: 206, 1934.
Essig & Hoskins, Cal. Ext. C. 87: 116-117, 1934.
bGwin, J. Ec. Ent. 27: 996-997, 1933.
Newcomer & Carter, Wash. St. Hort. Soc. P. 26: 73-76, 1930.
bNewcomer & Carter, USDA TB 373, 1933, 23p.
Richardson, Iowa Hort. Soc. Trans. 66: 11, 1931.
bRoark, Pac. Sci. Cong. 5, P. 5: 3406, '34.
Wilson, J. Ec. Ent. 27: 291, 1934.
Wash. Ext. B. 185: 4, 1934.
- Insecticides—Fluorine compounds—Toxicity**
bDeEds, J. Ec. Ent. 26: 302-304, 1933.
Shepard & Carter, J. Ec. Ent. 26: 913, 1933.
bSmith & Levertton, Indus. & Engin. Chem. 26: 791-797, 1934.
- Insecticides—Fluosilicates, *see also* Insecticides—Barium fluosilicate**
Carter, Indus. & Engin. Chem. 22: 886-887, 1930.
Crosby & Chupp, N.Y. (C.) Ext. B. 278: 87, 1934.
biMarcovitch, Tenn. B. 147: 6-8, 1933.
Tesche, Pac. Rur. Press 119: 668, 1930.
- Insecticides—Formaldehyde**
biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 9, 1931.
Hiestand, Ind. Acad. Sci. P. 41: 433-437, 1932.
iWilson, Ohio Bi-Mo. B. 159: 198-204, 1932.
- Insecticides—Formulae**
Britton, Conn. B. 344: 178-182, 1933.
Eddy et al, Ky. B. 353: 210, 1934.
Mitchener, Manitoba Dept. Agr. & Imm. C. 97: 6-7, 1933.
Ross, Can. Dept. Agr. B. 129: 51-52, '30.
Wilkinson, Conn. (Storrs) Ext. B. 196: 7-8, 1933.
- Insecticides—Free emulsion**
Bourne, Mass. B. 280: 213, 1932.
- Insecticides—Furan compounds**
Gilman et al., Iowa J. Sci. 7: 419-428, 1933.
- Insecticides—Government whitewash**
Quaintance & Siegler, USDA FB 1666: 35, 1931.
- Insecticides—Halowax**
biBreakey, J. Ec. Ent. 27: 393-398, 1934.
- Insecticides—Heat**
Bruner, Agete & Bouclé, Rev. de Agr. Cuba 11(10): 35, 1930.
Cressman, J. Ec. Ent. 26: 294-295, '33.
iGrossman, Fla. B. 239, 1931, 24p.
iGrossman, Fla. R. 45: 79-80, 1931.
Mackie, Cal. Agr. Mo. B. 20: 211-218, 1931.
Parks & Jones, Ohio Ext. Serv. B. 97: 22-23, 1930.
bThomas, Penn. B. 259: 18-19, 1930.
- Insecticides—Hellebore**
Essig, Hist. of Ent.: 448-450, 1931.
McDaniel, Mich. Sp. B. 214: 10, 1931.
- Insecticides—Heptylic acid**
O'Kane, N.H. TB 58: 25-35, 1934.
- Insecticides—Hexylresorcinol**
Houghton, Cactus & Succul. Soc. Amer. J. 2: 298, 1930.

Insecticides—Hot water

- Chambers, J. Ec. Ent. 23: 547-550, '30.
 iDearing & Griffiths, N.C. Dept. Agr. B.
 Jan. 1930: 47-52.
 Dustan, Que. Soc. Prot. Pl. R. 23/24:
 36, 1932.
 Fleming, USDA TB 274, 1932, 41p.
 iMiddleton & Smith, USDA C. 305: 7-8,
 1934.
 iSein, P.R. Univ. J. Agr. 18: 411-416,
 1934.
 iSmith, USDA C. 301: 9-12, 1933.
 Strong, USDA BPQ SRA 112: 74, 1932.
 Weigel, W. Wash. Hort. Assoc. P. 25:
 17-18, 1934.

Insecticides—Household—Tests

- Weed, Soap 7(1): 111, 113, 1931.

Insecticides—Hydrocyanic acid gas, see**Fumigants—Hydrocyanic acid gas****Insecticides—Hydrogen-ion effect on nicotine**

- biRichardson & Shepard, J. Agr. Res. 41:
 337-348, 1930.

Insecticides—Investigation

- Bourne, Mass. B. 271: 254-260, 1931;
 B. 280: 213-215, 1932.
 Felt & Bromley, J. Ec. Ent. 24: 232-
 240, 1931.
 Ginsburg, N.J. R. 52: 193-197, 1931.
 Hamilton, N.J. R. 52: 238, 1931.
 Haseman, Missouri B. 340: 50, 1934.
 Headlee, N.J. R. 51: 159-160, 1930; R.
 53/54, 39-40, 1933.
 Knight, USDA Bur. Chem. & Soils
 R. f. 1930: 31-32; R. f. 1931: 27-29;
 R. f. 1932: 18-20; R. f. 1933: 26-29;
 R. f. 1934: 26-30.
 Lipman, N.J. R. 52: 32-33, 1931.
 Porter, Ohio St. Hort. Soc. P. 65: 115-
 116, 1932.
 Van Leeuwen, Mich. R. 15: 157-158, '30.
 Weir, Can. Min. Agr. R. f. 1930/1931:
 135; R. f. 1931/1932: 180-181; R. f.
 1933/1934: 62.
 J. Ec. Ent. 24: 20-23, 1931.

Insecticides—Iodine

- Frobisher & Shannon, Amer. J. Hyg.
 13: 616, 620, 1931.

Insecticides—Iron sulphate

- Kelsall, Ent. Soc. Ont. R. 65: 75, 1934.
 Kelsall & Hockey, N.S. Fr. Grow. As-
 soc. R. 67: 176-179, 1930.

Insecticides—Kerosene

- iO'Kane et al., N.H. TB 54: 7-11, 1933.
 O'Neill, Ga. St. Ent. C. 42: 9, 1932.

Insecticides—Kerosene emulsion

- bEhrlich, Arnold Arboretum J. 13: 77-
 80, 1932.
 Essig, Hist. of Ent.: 406-410, 1931.
 Noble, U.S. Golf Assoc. Green Sec. B.
 12: 14-17, 1932.

Insecticides—Kerosene-pyrethrum

- iRichardson, J. Ec. Ent. 24: 97-105,
 763-764, 1931; 26: 252-259, 1933.
 Twinn, N.J. Mos. Extermin. Assoc. P.
 18: 37-39, 1931.
 Vannote & Ginsburg, N.J. Mos. Ex-
 termin. Assoc. P. 18: 111-120, 1931.

Insecticides—Larvex

- Sachs, J. Tech. Assoc. Fur. Ind. 1: 103-
 111, 1930.

Insecticides—Larvicides

- Bishopp, N.J. Mos. Extermin. Assoc.
 P. 19: 33, 1932.
 Ginsburg, N.J. C. 291, 1933, 4p.
 Headlee, N.J. R. 53-54: 36, 1933.
 iJohnson, Pub. Works 61: 120-122, '30.
 Turner, Conn. B. 360: 445, 1934.
 Twinn, Sci. Agr. 13: 404, 1933.

Insecticides—Larvicides—Brine

- Wright, J. Parasit. 19(1): 87, 1932.

Insecticides—Larvicides—Coal tar

- bBaird, Soap 5(6): 101, 103, 121, 1930.

Insecticides—Larvicides—Nicotine

- biRichardson & Shepard, J. Agr. Res. 41:
 337-348, 1930.

**Insecticides—Larvicides—Nicotine sul-
phate oil emulsion**

- Wakeland, Ida. B. 170: 20-21, 1930.

Insecticides—Larvicides—Oils

- Bishopp, N.J. Mos. Extermin. Assoc.
 P. 20: 87, 1933.
 Ginsburg, N.J. C. 201, 1933, 4p.; C.
 291: 1-2, 1933.

**Insecticides—Larvicides—Paradichloro-
benzene**

- Yetter, Ida. St. Hort. Assoc. P. 36: 89,
 1931.

Insecticides—Larvicides—Paris green

- Cook, South. Med. J. 24: 431-433, '31.
 bGrant, Newman & Wood, U.S. Pub.
 Health R. 47: 1239-1247, 1932.
 McNeel, N.J. Mos. Extermin. Assoc.
 P. 19: 95-96, 1932.

Insecticides Cont'd

iRojas, United Fr. Co. Med. Dept. R.
20: 93-94, 1931.

biRussell, J. Parasit. 19: 215-224, 1933.

Insecticides—Larvicides—Pyrethrum

Bishopp, N.J. Mos. Extermin. Assoc.
P. 20: 87, 1933.

biGnadinger, Pyrethrum Flowers: 212-
214, 1933.

Smith, N.J. Mos. Extermin. Assoc.
P. 19: 128-131, 1932.

Twinn, N.J. Mos. Extermin. Assoc. P.
18: 37-39, 1931.

Insecticides—Larvicides—Soap

Ginsburg, Science n.s. 79: 210, 1934.

Insecticides—Lead—Toxicity

Emerson, Mich. St. Hort. Soc. R. 63:
97-99, 1934.

Insecticides—Lead arsenate

Brooks & McDowell, Tex. C. 70: 6, '34.

bCarter & Newcomer, J. Ec. Ent. 26:
572-580, 1933.

biChapman et al, J. Ec. Ent. 27: 421-431,
1934.

Cory, J. Ec. Ent. 27: 509-514, 1934.

Crosby & Chupp, N.Y. (C.) Ext. B.
206: 98, 1931; Ext. B. 278: 87, 1934.

Crumb, W. Wash. Hort. Assoc. P. 25:
14-15, 1934.

Dutton, Can. Hort. Fr. & Truck ed.
54: 24, 1931.

Eddy et al, Ky. B. 353: 206, 1934.

Essig, Hist. of Ent.: 433-436, 1931.

iEssig & Hoskins, Cal. Ext. C. 87: 110-
113, 1934.

Ficht, J. Ec. Ent. 26: 750, 1933.

iFleming, Metzger & Osburn, USDA C.
317: 7, 1934.

Fluke, Wis. Hort. 22: 45, 1931.

Friend, Conn. Veg. Grow. Assoc. R. 19:
29, 1932.

Haegle, Ida. News Letter 26(4): 4, '32.

Hamilton, N.J. Dept. Ent. R. f. 1930:
186-200, 1931.

Hanson, W. Wash. Hort. Assoc. P. 25:
45-47, 1934.

iHerrick, N.Y. Dept. Agr. & Markets B.
240: 60-61, 1930.

Hutchison, Cal. R. f. 1932/1934: 60.

Linfield, Mont. R. 41: 37-38, 1934.

McDaniel, Mich. Sp. B. 214: 7-8, 1931.

Madlinger, Tenn. St. Hort. Soc. P. 28:
76, 1932.

iMiller, Bassett & Yothers, Fla. St.
Hort. Soc. P. 46: 57-70, 1933.

biMiller et al., USDA TB 350, 1933, 20p.
List, J. Ec. Ent. 26: 374, 1933.

McDaniel, J. Ec. Ent. 26: 835-836, '33.

Marshall et al., Wash. St. Hort. Assoc.
P. 30: 52-64, 1934.

Metzger, J. Ec. Ent. 26: 205-210, 1933.

iMiller & McBride, J. Ec. Ent. 24:
1119-1131, 1931.

Mumford, Ill. R. 42: 150, 1929.

Nelson & Mottern, Amer. J. Pub.
Health 22: 587-600, 1932.

bNorth & Thompson, J. Ec. Ent. 26:
1122-1125, 1933.

biRichardson & Haas, J. Ec. Ent. 26:
1078-1088, 1932.

iRodriguez, P.R. Ins. C. 102: 29-30, '33.

Sanderson, Insect Pests Farm ed. 3: 36-
37, 1931.

Sherwood, W.Va. Ext. C. 304: 15-16,
1934.

Smith, Amer. Pom. Soc. P. f. 1929-
1930: 52-57.

Trent, Okla. Coop. Ext. C. 168 rev.: 5,
1930.

bTucker, Cal. Agr. Mo. B. 23: 141-145,
1934.

Van Leeuwen, USDA C. 237: 6-9, '32.

Webster & Marshall, Wash. B. 293,
1934, 31p.

Westover & Enlow, USDA FB 1677:
17-18, 1931.

Williams, Neb. St. Hort. Soc. P. 61: 99-
100, 1930.

Wright, N.Eng. Glad. Soc. YB f. 1934:
111-113.

Insecticides—Lead arsenate—Green

Van Leeuwen, USDA C. 237: 13, 1932.

Insecticides—Lead arsenate—Substitutes

Childs, Oreg. St. Hort. Soc. R. 26: 85-
89, 1934.

Cory, Md. St. Hort. Soc. P. 35: 89-90,
1933.

Garman, Conn. Pom. Soc. P. 43: 70-80,
1933.

iGarman, Conn. B. 360: 451-458, 1934.

Garman & Turner, Conn. C. 100, 1934,
4p.

- Lamerson & Parker, Kans. St. Hort. Assoc. Bien. R. 42: 95-96, 1934.
 Mote & Thompson, Pac. Sci. Cong. 5, P. 5: 3411-3417, 1934.
 Mumford, Ill. R. 42: 149, 1929.
 Sherman, Mich. Sp. B. 221: 16-17, '32.
- Insecticides—Lead arsenate—Toxicity**
 Kallet & Schlink, Nation 135(3510): 325-327, 1932.
 Richardson & Haas, J. Ec. Ent. 24: 733-736, 1931.
 Thomas & Shealy, J. Agr. Res. 45: 317-319, 1932.
- Insecticides—Lead arsenate and Bordeaux mixture**
 Arango, Rev. de Agr. Cuba 11(7): 27, 1930.
- Insecticides—Lead arsenate and corn meal**
 Lacroix, Conn. B. 350: 491-493, 1932.
- Insecticides—Lead arsenate and ferric oxide**
 bGinsburg, J. Ec. Ent. 24: 695-701, '31.
- Insecticides—Lead arsenate and hydrates**
 bStreeter & Pearse, Indus. & Engin. Chem. 23: 1140-1144, 1931.
- Insecticides—Lead arsenate and soap**
 Watson, Fla. Grow. 39(6): 22, 1931.
- Insecticides—Lead arsenate and summer oil**
 Cleveland, Amer. Pom. Soc. P. 48: 139-143, 1932.
 Spuler, Wash. St. Hort. Soc. P. 26: 59-72, 1930.
- Insecticides—Legislation**
 Campbell, USDA FDA R. f. 1930: 16-19; R. f. 1931: 21-25; R. f. 1932: 14-16; R. f. 1933: 16-17; R. f. 1934: 15-16.
 Hyde, USDA FDA Not. Judg. 1241 (Amended) Nov. 28, 1932.
 McDonnell, USDA Off. Rec. 9(12): 1, 8, 1930.
 Moskey, North Amer. Vet. 12(3): 17-22, 1931.
 Perry, N.J. Agr. 12(4): 5, 1930.
 Talmadge, Ga. Dept. Agr. B. 116, 1930, 9p.
 N.Y. Dept. Agr. & Markets B. 250: 7, 1931.
 USDA FDA Not. Judg. 1211-1215: 105-108, 1932.
- Insecticides—Legislation—Canada**
 J. Agr. & Hort. 36: 124, 1933.
- Insecticides—Legislation—Fakes**
 Gray, Cal. Cult. 77: 421, 445-451, '31.
 Howard, Hist. of Appl'd Ent.: 142-147, 1930.
- Insecticides—Legislation—N.Y.**
 Plunkett, Soap 7(12): 121, 123, 125, '31.
 N.Y. Dept. Agr. & Markets B. 260: 107, 1932; B. 274: 113, 1933; B. 286: 116, 1934.
- Insecticides—Lemon oil**
 McDaniel, Mich. Sp. B. 214: 12, 1931.
- Insecticides—Lethane 420**
 Murphy & Peet, Indus. & Engin. Chem. 25: 638-639, 1933.
 Flor. Exch. 79(15): 58, 1932.
- Insecticides—Lignin pitch**
 Hurt, Va. Poly B. 277, 1931, 10p.
- Insecticides—Lime**
 Barrus & Crosby, N.Y. (C.) Ext. B. 238: 17, 1932.
 Bourne, Mass. B. 280: 214, 1932.
 Downes, Can. Ent. 67: 23-24, 1934.
 Eddy et al, Ky. B. 353: 207, 1934.
 Miller et al, Cit. Ind. 14(4): 7, 22-23, 1933.
 Purdue Agr. 25: 4, 20, 1930.
- Insecticides—Lime-sulphur**
 Bullis, J. Ec. Ent. 24: 1247-1252, 1931.
 biBullis, J. Ec. Ent. 25: 922-928, 1932.
 Eddy et al, Ky. B. 353: 207, 1934.
 biLiming, Phytopath. 23: 170-171, 1933.
 List. Col. B. 411, 1934, 14p.
 Mercer, Kans. Live Stock San. Comm. Bien. R. 14: 91-92, 1933.
 biO'Kane & Conklin, N.H. TB 40, 1930, 15p.
 Trent, Okla. Coop. Ext. C. 168 rev.: 8-9, 1930.
 N.Y. Dept. Agr. & Markets B. 250: 5, 20, 1931.
- Insecticides—Lime-sulphur—Salt**
 Essig, Hist. of Ent.: 453-457, 1931.
- Insecticides—Lime-sulphur and iron sulphate**
 DeBusk, Cit. Ind. 14(5): 26, 1933.
 Miller, Yothers & Bassett, Fla. St. Hort. Soc. P. 46: 52-56, 1933.
- Insecticides—Lime with fluosilicates**
 iCarter, J. Ec. Ent. 24: 263-268, 1931.

Insecticides—Liquid

Mackie, Cal. Dept. Agr. Sp. Pub. 119:
16-17, 1933.

bMerritt, Dibble & Robey, J. Ec. Ent.
26: 580-582, 1933.

iNelson et al, Soap 10(10): 85-91, 105,
107, 1934.

Insecticides—London purple

Essig, Hist. of Ent.: 429-431, 1931.

Insecticides—Magnesium arsenate

Brannon, J. Ec. Ent. 25: 1112-1113,
1932.

Brannon, Va. Truck B. 85: 1197-1201,
1934.

Crosby & Chupp, N.Y. (C.) Ext. B.
206: 98, 1931; Ext. B. 206 rev.: 101,
1933; Ext. B. 278: 87, 1934.

bDearborn, J. Ec. Ent. 23: 758-764, '30.
Friend, Conn. Veg. Grow. Assoc. R. 19:
25-27, 1932.

iGilbert & Popenoe, USDA FB 1371
rev.: 11, 1934.

Lutken, S.C. Wkly. News Notes 19: 52,
1931.

Nissley, Amer. Agr. 129: 262, 1932.

Insecticides—Magnesium sulphate

bDeAsis, Amer. J. Trop. Med. 14(1): 33-
44, 1934.

Insecticides—Manganar—Substitute for arsenate of lead

Lamerson & Parker, Kans. St. Hort.
Assoc. Bien. R. 42: 95-96, 1934.

Insecticides—Manufacture

iAlford, Chem. & Met. Engin. 41: 634-
636, 1934.

Insecticides—Marketing problems

Hitchner, Chem. & Met. Engin. 37: 62,
1930.

Insecticides—Mercuric chloride

iAmos, Purdue Agr. 26: 142, 1932.

bBentley & Bartlett, Tenn. Pl. Dis. Con-
trol B. 57: 11-12, 1931.

Caesar, Ont. Min. Agr. R. f. 1932: 46,
1933.

Dustan, Que. Soc. Prot. Pl. R. 23/24:
35-36, 1932.

Friend, N.H. Hort. Soc. R. Meet.
Manchester Dec. 8, 1932: 72-73.

bGorham, Que. Soc. Prot. Pl. R. 25/26:
93-95, 1934.

Hamilton, N.J. C. 333: 3-4, 1934.

Kendall, Ent. Soc. Ont. R. 62: 83-84,
1932.

McDaniel, Mich. Sp. B. 214: 12-14,
1931.

McDaniel, Mich. Quar. B. 15(3): 171,
1933.

Weigel, W. Wash. Hort. Assoc. P. 25:
17, 1934.

Insecticides—Mercury compounds

McDaniel, Mich. Quar. B. 15(3): 171,
1933.

Insecticides—Mercury salts—Seed treat- ment

iGlasgow, J. Ec. Ent. 27: 303-308, 1934.

Insecticides—Metallic mercury

Houghton, Cactus & Succul. Soc. Amer.
J. 2: 298, 1930.

Insecticides—Monosodium arsenite

biRichardson & Haas, J. Ec. Ent. 25:
1078-1088, 1932.

Insecticides—N-butylidene chloride

bWright et al., J. Agr. Res. 43: 287-302,
1931.

Insecticides—Naphthalene, see Fumigants —Naphthalene**Insecticides—Naphthylamine (alpha)**

Davis, Va. Fruit 22(12): 6, 1934.

Insecticides—Neonicotine, see also Insec- ticides—Anabasine

Knight, USDA YB f. 1933: 363-364.

Smith, Oil, Paint & Drug Report
117(16): 38C, 1930.

biSmith, Amer. Chem. Soc. J. 53: 277-
283, 1931.

Smith, J. Ec. Ent. 24: 1108, 1931.

†Insecticides—Nicotine

Brooks & McDowell, Tex. C. 70: 12,
1934.

Buchanan, Iowa R. f. 1934: 97.

biCarter, J. Ec. Ent. 25: 1031-1035, 1932.

iCrosby & Chupp, N.Y. (C.) Ext. B.
206 rev.: 99-101, 1933; Ext. B. 278:
84-86, 1934.

Dye, Wis. Hort. 24: 298, 1934.

Eddy et al, Ky. B. 353: 207-208, 1934.

Essig & Hoskins, Cal. Ext. C. 87: 132-
134, 1934.

Ficht, J. Ec. Ent. 26: 754, 1933.

Fluke, Wis. Hort. 24: 29, 1933.

Ginsburg, N.J. R. 51: 168-169, 1930.

Goucher, N.S. Dept. Agr. R. f. 1931:
125, 1932.

- Huckett, J. Ec. Ent. 23: 169-174, 1930.
 Knight, USDA Bur. Chem. & Soils
 R. f. 1933: 27-28; R. f. 1934: 7-8.
 biLevine & Richardson, J. Ec. Ent. 27:
 1170-1175, 1934.
 McDaniel, Mich. Sp. B. 214: 10-11,
 1931.
 bMills, Iowa J. Sci. 6: 287-298, 1932.
 Moore, J. Ec. Ent. 26: 723-726, 1933.
 Mumford, Ill. R. 42: 148, 1929.
 iO'Kane, N.H. TB 54, 1933, 23p.
 biO'Kane et al., N.H. TB 58: 14-24, 1934.
 Richardson, Iowa Hort. Soc. Trans. 66:
 11-12, 1931; 67: 84-88, 1933.
 Roark, Sci. Amer. 147: 247-248, 1932.
 Robinson, Oreg. B. 259: 23, 1930.
 bShepard, J. Ec. Ent. 24: 725-731, 1931.
 biShepard & Richardson, J. Ec. Ent. 24:
 905-913, 1931.
 Stevenson, Ont. Dept. Agr. B. 363: 17,
 1931.
 bStevenson, Cal. & West. Med. 38: 92-
 95, 1933.
 Tissot & Thompson, Fla. Ent. 14: 9,
 1930.
 bWebster & Marshall, J. Ec. Ent. 27:
 873-878, 1934.
 Woodward & Waller, N.J. Agr. Exp.
 Sta. 1880-1930: 236, 1932.
 Young & Nelson, Indus. & Engin.
 Chem. 21: 321-322, 1929.
- Insecticides—Nicotine—Poisoning—Hu-
mans**
 Faulkner, J. Amer. Med. Assoc. 100:
 1664-1665, 1933.
- Insecticides—Nicotine activators**
 Felt & Bromley, J. Ec. Ent. 24: 105-
 110, 1931.
 Hoerner, J. Ec. Ent. 23: 174-177, 1930.
 biHuckett, N.Y. (Gen.) TB 210, 1933,
 20p.
- Insecticides—Nicotine and substitutes**
 Safo, Ohio Veg. Grow. Assoc. P. 15:
 17-20, 1930.
- Insecticides—Nicotine compounds**
 Driggers & Pepper, J. Ec. Ent. 27: 249-
 258, 1934.
 N.Y. Dept. Agr. & Markets B. 250: 5,
 18, 1931.
- Insecticides—Nicotine derivatives**
 Bilger, Westgate & Loveland, Hawaii
 R. f. 1932: 12-13, 1933.
- Insecticides—Nicotine solutions**
 biWilcoxon & Hartzell, Boyce Thompson
 Inst. Contrib. 3: 1-12, 1931.
- Insecticides—Nicotine sulphate**
 Bishopp & Woods, USDA FB 801 rev.:
 17-18, 1931.
 Brannon, J. Ec. Ent. 25: 1112-1113,
 1932.
 Carter, J. Ec. Ent. 25: 1242-1243, '32.
 Chamberlin, J. Ec. Ent. 25: 135, 412,
 1932.
 Dean, Kans. St. Hort. Soc. Bien. R. 42:
 89-93, 1934.
 bGarman, Conn. B. 349: 433-434, 1933.
 Iddings, Ida. B. 179: 29, 1931.
 Jones, Tex. R. 47: 51-52, 1934.
 Lee, Profit. Poultry Manag. ed. 6: 129-
 130, 1933.
 Marlatt, USDA Ent. R. f. 1932: 7.
 Mercer, Kans. Live Stock San. Comm.
 Bien. R. 14: 92, 1933.
 iQuaintance, USDA FB 1398 rev.: 15-
 16, 1934.
 Sandsten, Col. R. 47: 17, 1934.
 Trent, Okla. Ext. C. 168 rev.: 5, 1930.
 bWebster & Marshall, J. Ec. Ent. 27:
 873-878, 1934.
- Insecticides—Nicotine sulphate—Toxicity**
 Campbell, Cal. Agr. Mo. B. 22: 245,
 1933.
 Garman, Conn. B. 349: 433-434, 1933.
 Griffith, Amer. J. Pharm. 104: 504, '32.
- Insecticides—Nicotine sulphate and oil
emulsions**
 Newcomer, Blue Anchor 9(3): 14, 25,
 1932.
- Insecticides—Nicotine sulphate and pyrox**
 iEvans, Glad. Rev. 9: 49-52, 1932.
- Insecticides—Nicotine sulphate and soap**
 Friend, Conn. Veg. Grow. Assoc. R. 19:
 29, 1932.
- Insecticides—Nicotine tannate**
 Driggers, Successful Farm. 32(5): 57,
 1934.
 Filmer, J. Ec. Ent. 24: 277-283, 1931.
 Ginsburg & Mann, J. Ec. Ent. 24: 695-
 701, 1931.
 Gross & Fahey, Northw. Fr. Grow.
 (32-33): 22, 1930.
 Headlee, Ginsburg & Filmer, J. Ec.
 Ent. 23: 45-53, 1930.

Insecticides—Nicotine tannate *Cont'd*

Headlee, Peninsula Hort. Soc. Trans. f.
1930: 52-59, 1931.

McLean, N.J. St. Hort. Soc. News
11(3): 336, 1930.

Moore, J. Ec. Ent. 25: 554-559, 1932.

Moore, J. Ec. Ent. 26: 723-726, 1933.

Richardson, Iowa Hort. Soc. Trans. 66:
10, 1931.

J. Ec. Ent. 24: 21-22, 1931.

N.J. C. 254, Feb. 1932, 8p.

N.J. R. 51: 159-160, 1930; R. 52: 187-
189, 1931.

Insecticides—Nicotine vapor

iSmith, Wash. St. Hort. Assoc. P. 30:
72-75, 1934.

Insecticides—Nitrogen heterocyclic compounds

bCraig & Richardson, Iowa J. Sci. 7:
477-485, 1933.

Insecticides—Non-arsenical

iGross & Fahey, Northw. Fr. Grow.
2(32/33): 7, 22, 1930.

Hough, Peninsula Hort. Soc. Trans. 48:
12-14, 1934.

Marshall, Wash. B. 305: 35-36, 1934.

Thompson, Fla. St. Hort. Soc. P. 45:
119-123, 1932.

Insecticides—Oil

Parker, Shotwell & Morton, J. Ec. Ent.
27: 89-96, 1934.

Wilff, Pac. Rur. Press 119: 205, 1930.

Insecticides—Oil emulsion

Tolles, J. Ec. Ent. 24: 692-694, 1931.

Insecticides—Oil-nicotine

J. Ec. Ent. 24: 20-21, 1931.

Insecticides—Orthodichlorobenzene

Houser, Ohio B. 478: 45-46, 1931.

O'Neill, Ga. St. Ent. C. 42: 9, 1932.

biSnyder, Pac. Sci. Cong. 4, P. 4: 144-
145, 1931.

Insecticides—Ovicides

Clark, N.J. C. 304: 3-4, 1934.

Hutchison, Cal. R. f. 1932/1934: 74.

Ross, Armstrong & Patterson, Ent. Soc.
Ont. R. 63: 21-23, 1932.

Schneiderhan, Mountaineer Grow.
4(36): 12, 1933.

Yetter, Ida. St. Hort. Assoc. P. 36: 89,
1931.

**Insecticides—Paradichlorobenzene, *see*
Fumigants—Paradichlorobenzene****Insecticides—Paris green**

Bishopp, N.J. Mos. Exterm. Assoc. P.
19: 34, 1932.

Curry, Panama Canal Health Dept. R.
f. 1931: 59-64, 1932.

Essig, Hist. of Ent.: 423-428, 1931.

Grant et al., U.S. Pub. Health R. 47:
1239-1247, 1932.

Hale, United Fr. Co. Med. Dept. R. 20:
101-103, 1931.

Lacroix, Conn. B. 326: 431, 1931.

McDaniel, Mich. Sp. B. 214: 8-9, 1931.

bNorth & Thompson, J. Ec. Ent. 26:
1122-1125, 1933.

biRichardson & Haas, J. Ec. Ent. 25:
1078-1088, 1932.

biRussell, J. Parasit. 19: 215-224, 1933.
Sestier, Iowa St. Hort. Soc. Trans. 69:
267, 1934.

Wright, New Eng. Glad. Soc. YB f.
1934: 111-113.

N.Y. Dept. Agr. & Markets B. 250: 17,
1931.

Insecticides—Paris green and calcium arsenate

Lacroix, Conn. B. 326: 421-422, 1931.

Insecticides—Paris green, bran and molasses

iHerrick, N.Y. Dept. Agr. & Markets B.
240: 61-62, 1930.

Insecticides—Patents

Norcross, Soap 5(7): 109, 111, 133, 135,
137, 1930.

Roark, Textile Colorist 52: 25-28,
1930; 53: 301-305, 1931; 54: 369-
374, 1932.

Roark, Soap 8(9): 83-84, 1932; 10(11):
91, 93, 105, 1934.

Insecticides—Penetrol

Hoerner, J. Ec. Ent. 23: 174-177, 1930.
Fla. Ent. 14: 38, 1930.

Insecticides—Phenol

Alston, Vet. Med. 28: 164, 1933.

Degtyarev, Amer. Leather Chem.
Assoc. J. 28: 565, 1933.

Smith, Assoc. Off. Agr. Chem. J. 13:
160-163, 1930.

Insecticides—Physico-chemical investigations

bGimingham, Pac. Sci. Cong. 5, P. 5:
3432-3435, 1934.

Insecticides—Pine oil

Brewer & Ruehle, Soap 10(10): 82-83, 1934.

Ginsburg, N.J. R. 51: 167-168, 1930.

bThompson, J. Ec. Ent. 25: 347-351, '32.

Insecticides—Pine tar oil

DeOng, J. Ec. Ent. 24: 736-743, 1931.

DeOng, Sci. News Letter 20: 270, 1931.

Hamilton, Nat. Shade Tree Conf. P. 10: 31-36, 1934.

biMitchell & Corbett, Amer. Vet. Med.

Assoc. J. n.s. 36: 247-254, 1933.

Insecticides—Plant extracts—Toxicity to goldfish

Drake & Spies, J. Ec. Ent. 25: 129-133, 1932.

Spies, J. Ec. Ent. 26: 285-288, 1933.

Insecticides—Poison bait

iCaesar, Ont. Dept. Agr. B. 359: 6-9, 14-16, 1931.

bCowan, Col. TB 7, 1934, 18p.

bCowan, J. Ec. Ent. 27: 705-713, 1934.

Criddle, Can. Dept. Agr. B. n.s. 143: 9-11, 1931.

Criddle, Can. Dept. Agr. Pam. n.s. 146: 7, 1932.

Dean, Kans. St. Hort. Soc. Bien. R. 41: 222, 1932.

iDrake & Harris, Iowa Ext. B. 194: 6-8, 1933.

iDustan, Can. Dept. Agr. B. n.s. 161: 17-18, 1932.

Essig, Hist. of Ent.: 463-468, 1931.

bGimingham, Pac. Sci. Cong. 5, P. 5: 3431-3432, 1934.

Hanson, W. Wash. Hort. Assoc. P. 25: 47, 1934.

biHebard, Ill. Nat. Hist. Surv. B. 20: 266-269, 1934.

biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 26-29, 1931.

Hutson, Mich. Quar. B. 15(1): 20-22, 1932.

Langeler, Hort. n.s. 10: 382, 1932.

iLehman, J. Ec. Ent. 26: 243-252, 1933.

McLean, J. N. Y. Bot. Gard. 34: 145-148, 1933.

Marcovitch, Tenn. R. 45: 33, 1932.

Newcomer, USDA C. 270, 1933, 76p.

Parker & Shortwell, J. Ec. Ent. 25: 174-187, 1932.

Parker et al., J. Ec. Ent. 27: 89-95, '34
Pring, Missouri Bot. Gard. B. 20: 70, 1931.

Quaintance & Siegler USDA FB 1666: 37-38, 1931.

Richardson, Iowa R. f. 1932: 59.

biRichardson et al., J. Ec. Ent. 25: 1078-1088, 1932; 26: 494-499, 1933.

iRuggles, Minn. Hort. 59: 164-165, '31.

Sanborn, Okla. R. f. 1926/1930: 237-245.

iSanderson, Ins. Pests Farm ed. 3: 68-70, 1931.

Shull, Ida. Ext. B. 80: 5-8, 1934.

iStrickland, Alberta Ext. B. 24: 13-15, 24-26, 1933.

Thomas, Penn. B. 259: 19-22, 1930.

Thompson, Ent. Soc. Ont. R. 62: 87-89, 1932.

Wakeland & Waters, Ida. Dept. Ent. B. 185, 1931, 15p.

Wallace, Ind. YB f. 1931: 825.

iWhitehead, Okla. R. f. 1930-1932: 268-274.

Insecticides—Poison bait—Argentine ant poison

iHaug, Ann. Ent. Soc. Amer. 27: 621-632, 1934.

Insecticides—Poison bait—Bran mash

Ball, Boyden & Stone, Fla. B. 250: 18, 1932.

Drake, Iowa Agr. Res. R. f. 1932: 59.

Essig, Hist. of Ent.: 463-468, 1931.

iHeaton, Purdue Agr. 25: 181, 1931.

Lacroix, Conn. B. 326: 427-428, 1931.

iList, Col. St. Ent. C. 59: 12-16, 1934.

iMitchener, Ent. Soc. Ont. R. 63: 45-48, 1932; R. 64: 53-55, 1933.

iRuggles, Minn. Hort. 59: 196-197, '31.

iRuggles, Minn. Hort. 62: 153, 1934.

Snapp, USDA FB 1557 rev.: 29-30, 40, 1931.

Thompson, Cit. Ind. 13(9): 21, 24, '32.

Whitehead, Okla. R. f. 1926/1930: 236-237.

Insecticides—Poison bait—Apple pomace

biEssig, Cal. Agr. Mo. B. 22: 408, 1933.

Insecticides—Poison bait—Effect on birds

biWhitehead, Okla. B. 218, 1934, 54p.

Insecticides—Poison bait—"Go West"

iHamilton & Henderson, Amer. Orchid Soc. B. 2: 46-47, 1933.

Insecticides—Poison bait—Mowrah meal

Lawn Care 3(5): 2, 1930.

Insecticides—Poison bait—Raisin

Kennedy, Ont. Agr. Coll. & Exp. Farm R. 57: 125, 1931.

Insecticides—Poison bait—Salt

Morse, J. Ec. Ent. 23: 465, 1930.

Insecticides—Poison bait—Tartar emetic

Cartie, Lawn Care 4(2): 4, 1931.

Insecticides—Poison bait—Thallium sulphate

biClark, Tex. Cit. 8(10): 9, 20, 1932.

Insecticides—Poison dusts

Kofoed & Williams, Kofoed, Termites & Termite Control: 447-449, 1934.

iRandall & Doody, Kofoed, Termites & Termite Control: 433-446, 1934.

Insecticides—Poisoned syrup mixture

Grossman, Fla. P. B. 434: 2, 1931.

Insecticides—Poisons

Campbell, Pop. Sci. Month 116(5): 30, 1930.

Cox, Cal. Dept. Agr. Sp. Pub. 128, 1934, 48p.

Moulton, Cal. Sp. Pub. 107, 1931, 64p.

O'Brien, Country Gentl. 103(10): 10-11, 64, 1933.

Insecticides—Potassium antimony tartrate, see Insecticides—Tartar emetic**Insecticides—Propylene dichloride mixture**

McDaniel, Mich. Quar. B. 16(1): 13-15, 1933.

Insecticides—Pyrethrins

biGnadinger, Evans. & Corl, Col. B. 401, 1933, 19p.

Richardson, J. Ec. Ent. 25: 415, 1932.

bShepard, Amer. Pharm. Assoc. J. 22: 479-480, 1933.

bShepard, J. Ec. Ent. 26: 997-998, 1933.

bVollmar, Indus. & Engin. Chem. Anal. ed., 3: 110-112, 1931.

Insecticides—Pyrethrins, nicotine, rotenone

bRichardson, J. Ec. Ent. 25: 592-599, 1932.

Insecticides—Pyrethrol

Headlee, N.J. Dept. Ent. R. f. 1929: 197, 1930.

Lacroix, Conn. B. 335: 267, 1932; B. 350: 498-499, 1932.

†Insecticides—Pyrethrum

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 34, 1932.

Briggs, Virgin Isl. R. f. 1932: 14.

Chambers, Wis. Cranb. Grow. Assoc. Meet. 47: 12-13, 1934.

bCompere & Flanders, J. Ec. Ent. 27: 967, 1934.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 101, 1933; B. 278: 96-97, 1934.

iDeLong, J. Ec. Ent. 27: 525-533, 1934.

iDibble, Mich. Quar. B. 15: 219-221, 1933.

Dudley, Amer. Dahlia Soc. B. 61: 25, 1932.

bEdmonton, Amer. J. Pharm. 104: 793-798, 1932.

Essig, Hist. of Ent.: 441-448, 1931.

Ficht, J. Ec. Ent. 26: 751-754, 1933.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 9-10, 1934.

Gilbert & Popenoe, USDA FB 1371 rev.: 42-43, 1934.

bGimingham, Pac. Sci. Cong. 5, P. 5: 3428-3430, 1934.

biGinsburg, J. Agr. Res. 40: 1053-1057, 1930.

Ginsburg, N.J. C. 272, 1933, 4p.

Gray, Ent. Soc. Ont. R. 65: 65-66, '34.

Gui, Ohio B. 497, 78-81, 1932.

iHamilton, N.J. Gard. 2: 19-22, 1931.

iHartzell, J. Ec. Ent. 26: 583-586, 1933.

biHartzell, Boyce Thompson Inst. Contrib. 6: 212-217, 1934.

Hartzell, J. N.Y. Ent. Soc. 42: 137-138, 1934.

biHartzell & Wilcoxon, Boyce Thompson, Inst. Contrib. 4: 107-117, 1932.

Headlee, N.J. R. f. 1929: 154-156, 195-197, 1930.

Herman, Ent. Soc. Ont. R. 61: 41-43, 1931.

Huntington, Gard. Club Amer. B. ser. 4, 24: 116, 1932.

Hutson, Mich. Quar. B. 14: 91-93, '31.

Hutson, J. Ec. Ent. 26: 1171, 1933.

Hutson, Mich. Quar. B. 16: 100-101, 1933.

Hutson, Can. Hort. Fr. ed. 57: 90, 1934.

Lipman, N.J. R. 55: 43-44, 1934.

- biLockwood, Cal. Agr. Mo. B. 21: 375-393, 1932.
- McC Campbell, J. Col.-Wyo. Acad. Sci. 1(6): 73, 1934.
- McDaniel, Mich. Sp. B. 214: 11, 1931.
- bMcDonnell et al., USDA TB 198, 1930, 9p.
- Mote & Thompson, Pac. Sci. Cong. 5, P. 5: 3416, 1934.
- Nissley, N.J. Agr. 12(6): 2, 1930.
- Noble, U.S. Golf Assoc. Green Sec. B. 12: 14-17, 1932.
- bNorth & Thompson, J. Ec. Ent. 26: 1122-1125, 1933.
- iO'Kane et al., N.H. TB 54, 1933, 23p.
- Quaintance & Siegler, USDA FB 1666: 26, 1931.
- Richmond, J. Ec. Ent. 27: 973, 1934.
- bRoark, Pac. Sci. Cong. 5, P. 5: 3409, 1934.
- Skinner, USDA YB f. 1931: 318.
- Smith, N.J. Mos. Exterm. Assoc. P. 19: 128-131, 1932.
- Thomas, Oil, Paint & Drug Report 123(24): 33, 1933.
- Tischler, J. Ec. Ent. 24: 558, 1931.
- Tissot, Fla. Grow. 40(10): 12, 1932.
- bWalker, Crop Prot. Dig. B. 36: 943-971, 1932.
- Walker & Anderson, J. Ec. Ent. 27: 388-393, 1934.
- Weed, J. N.Y. Ent. Soc. 39: 599-600, 1931.
- Weed, Extermin. Log. 2(7): 6, 1934.
- biWilcoxon & Hartzell, Boyce Thompson Inst. Contrib. 5: 115-127, 1933.
- USDA YB f. 1933: 33.
- Insecticides—Pyrethrum—Cost**
Glassford, Oil, Paint & Drug Report 117(16): 19, 38C, 1930.
- Insecticides—Pyrethrum—Cultivation**
Sherman, Cal. Cult. 78: 181, 1932.
- Insecticides—Pyrethrum—Flowers**
bGnadinger, Soap 7(7): 97-101, 117, '31.
- biGnadinger, Pyrethrum Flowers, 1933, 269p.
- bGnadinger & Corl, Indus. & Engin. Chem. 24: 901-903, 1932.
- Insecticides—Pyrethrum—Injury**
Walker, Crop. Prot. Dig. B. 36: 943-971, 1932.
- Insecticides—Pyrethrum—Manufacture**
biGnadinger & Corl, Indus. & Engin. Chem. 24: 988-991, 1932.
- Insecticides—Pyrethrum—Pollen allergy**
Feinberg, Extermin. Log. 2(6): 9, 13, '34.
- Insecticides—Pyrethrum—Tests**
Weed, Soap 5(11): 105, 107, 109, 131, 133, 1930.
- Insecticides—Pyrethrum—Toxicity**
DeLong, Crop Prot. Inst. B. 44, 1934, 6p.
- biHartzell & Wilcoxon, Boyce Thompson Inst. Contrib. 4: 107-117, 1932; 5: 115-127, 1933.
- Insecticides—Pyrethrum and derris**
Hutson, Can. Hort. Fr. ed. 57: 250, '34.
- Hutson, Mich. Quar. B. 16: 241-242, 1934.
- Insecticides—Pyrethrum dust**
Stone et al., Fla. B. 251: 12-23, 1932.
- Insecticides—Pyrethrum extract**
Gnadinger & Corl, Indus. & Engin. Chem. 24: 988-991, 1932.
- Headlee, J. Ec. Ent. 23: 251-259, 1930.
- Mann, Soap 10(9): 97, 1934.
- Neu, Soap 9(2): 101, 1933.
- bRichardson, Indus. & Engin. Chem. 24: 1394-1397, 1932.
- bWalker, Va. Truck B. 75: 943-971, '31.
- Insecticides—Pyrethrum, nicotine sulphate, derris**
Dean, Kans. St. Hort. Soc. Bien. R. 42: 89-93, 1934.
- Insecticides—Pyrethrum powders**
biRichardson, J. Ec. Ent. 24: 1098-1106, 1931.
- Insecticides—Pyrethrum sulphur**
Clark, Tex. R. 47: 239, 1934.
- Insecticides—Pyrethrum vapors**
Ginsburg, N.J. R. 50: 176-178, 1929.
- Insecticides—Pyrethrum vs. rotenone**
bGinsburg, J. Ec. Ent. 25: 918-922, '32.
- Insecticides—Pyridine**
bRichardson & Haas, Iowa St. Col. J. Sci. 6: 287-298, 1932.
- Insecticides—Pyridine and pyrrolidine**
bRichardson & Shepard, J. Agr. Res. 40: 1007-1015, 1930.
- Insecticides—Pyrox**
Avery, Glad. Rev. 9: 199, 1932.
- iGrimes, Printer's Ink 163(10): 40-41, 1933.

- Insecticides—Pyrrolidines—Alpha substituted N-methyl**
 iCraig, Amer. Chem. Soc. J. 55: 2543-2550, 1933.
- Insecticides—Quassia**
 Essig, Hist. of Ent.: 450-451, 1931.
- Insecticides—Quicksilver, see Insecticides—Metallic mercury**
- Insecticides—Reckless use**
 Griffith, Amer. J. Pharm. 103: 349-352, 1931.
- Insecticides—Red arrow and soap**
 Badertscher, J. Ec. Ent. 24: 268-277, 1931.
- Insecticides—Regulations, see Insecticides—Legislation**
- Insecticides—Residual toxicity**
 bDeLong, Science n.s. 80: 320-321, 1934.
- Insecticides—Resin wash**
 Essig, Hist. of Ent.: 415-417, 1931.
- Insecticides—Rosin in**
 Roark, Amer. Soc. Testing Materials P. 30, pt. 2: 832-833, 1930.
- †Insecticides—Rotenone**
 Back & Cotton, J. Ec. Ent. 23: 1014, 1930.
 bBirdsall, Indus. & Engin. Chem. 25: 642-644, 1933.
 Chambers, Wis. Cranb. Grow. Assoc. Meet. 47: 12, 1934.
 iChristensen, Wis. B. 428: 104-106, '34.
 bClark, Amer. Chem. Soc. J. 53: 2369-2373, 3431-3436, 1931.
 Clark, Science n.s. 73: 17-18, 1931.
 bCrane, N.Y. St. Vet. Coll. R. f. 1931-1932: 86-120, 1933.
 Crosby & Chupp, N.Y. (C.) Ext. B 278: 86, 1934.
 Darley, J. Ec. Ent. 24: 111-115, 1931.
 biGersdorff, Amer. Chem. Soc. J. 56: 979-980, 1934.
 iGilbert & Popenoe, USDA FB 1371 rev.: 16-17, 1934.
 Ginsburg, N.J. C. 273, 1933, 2p.
 Haller, Amer. Chem. Soc. J. 53: 733-737, 1931; 54: 2126-2128, 4755, 1932; 55: 3032-3035, 1933.
 bHaller & LaForge, Amer. Chem. Soc. J. 52: 2480-2483, 3207-3212, 4505-4509, 1930; 53: 2271-2275, 3426-3431, 4460-4462, 1931; 54: 1988-1994, 1932; 55: 3494-3495, 1933.
 bHaller & Schaffer, Indus. & Engin. Chem. 25: 983, 1933.
 Hamilton, Glad. Rev. 9: 241-242, 1932.
 biHartzell, Boyce Thompson Inst. Contrib. 6: 217-222, 1934.
 Hyde, USDA YB f. 1931: 63.
 bJones, Indus. & Engin. Chem. 23: 387-388, 1931.
 bJones, Indus. & Engin. Chem. News ed. 9: 301, 1931.
 bJones, Indus. & Engin. Chem. Anal. ed., 5: 23-26, 1933.
 iJones, J. Wash. Acad. Sci. 23: 36-46, 1933.
 bJones & Davidson, J. Ec. Ent. 24: 244-257, 1931.
 Jones & Haller, Amer. Chem. Soc. J. 53: 2320-2324, 1931.
 Jones & Smith, Amer. Chem. Soc. J. 52: 2554-2562, 1930.
 Jones & Smith, Indus. & Engin. Chem. Anal. ed., 5: 75-76, 1933.
 biJones et al., J. Ec. Ent. 26: 451-470, 1933.
 Knight, Chemicals 38(25): 9, 1933.
 Knight, USDA Bur. Chem. & Soils R. f. 1933: 26-27.
 Koolhaas, Soap 10(9): 93, 1934.
 bLaForge, Amer. Chem. Soc. J. 52: 1102-1105, 1930; 53: 3896-3901, 1931; 54: 3377-3380, 1932; 55: 3040-3048, 1933.
 bLaForge & Haller, Amer. Chem. Soc. J. 54: 810-818, 1932; 56: 1620-1625, 1934.
 bLaForge, Haller & Smith, Amer. Chem. Soc. J. 53: 4400-4408, 1931.
 LaForge, Haller & Smith, Sci. News Letter 21: 255, 1932.
 bLaForge, Haller & Smith, Chem. Rev. 12: 181-213, 1933.
 LaForge & Keenan, Amer. Chem. Soc. J. 53: 4450-4451, 1931.
 bLaForge & Smith, Amer. Chem. Soc. J. 52: 1088-1098, 2878-2881, 3603-3609, 1930.
 Richardson, Iowa Hort. Soc. Trans. 66: 10, 1931.
 biRichardson & Haas, J. Ec. Ent. 25: 1078-1088, 1932.
 Roark, Sci. Amer. 147: 247-248, 1932.

- bRoark, Indus. & Engin. Chem. 25: 639-642, 1933.
- bRoark, Pac. Sci. Cong. 5, P. 5: 3410, 1934.
- bShepard, J. Ec. Ent. 24: 725-731, 1931.
- Shepard & Campbell, J. Ec. Ent. 25: 142-144, 1932.
- Skinner, USDA Off. Rec. 10: 344, 1931.
- Skinner, USDA YB f. 1931: 319.
- bSmith & LaForge, Amer. Chem. Soc. J. 52: 4595-4598, 1930; 53: 3072-3077, 1931; 54: 2996-3000, 1932.
- biTurner, J. Ec. Ent. 25: 1228-1237, '32.
- Insecticides—Rotenone—Occurrence**
- Clark, Science n.s. 77: 311-312, 1933.
- bJones, J. Wash. Acad. Sci. 23: 493-496, 1933.
- bRoark, J. Ec. Ent. 26: 587-594, 1933.
- Insecticides—Rotenone—Toxicity**
- bBuckingham, Indus. & Engin. Chem. 22: 1133-1134, 1930.
- biGersdorff, Amer. Chem. Soc. J. 52: 5051-5056, 1930.
- Insecticides—Rotenone vs. pyrethrum**
- bGinsburg & Schmitt, J. Ec. Ent. 25: 918-922, 1932.
- Insecticides—"Roto-Dust"**
- iMorales, Cuba Agr. 1(6): 42, 1934.
- Insecticides—Sale of uncertified**
- Cal. Agr. Mo. B. 21: 353, 1932.
- Irwin, Flow. Grow. 19: 112, 1932.
- Insecticides—Sea water**
- Marlow & Jong, J. Ec. Ent. 27: 914-919, 1934.
- Insecticides—Selenium**
- bGnadinger, Indus. & Engin. Chem. 25: 633-637, 1933.
- Nelson et al., Science n.s. 78: 124, 1933.
- Insecticides—Selocide**
- Gnadinger, Market Grow. J. 50: 233, 1932.
- Hutchison, Cal. R. f. 1932/1934: 55-56.
- Insecticides—Semesan**
- Weigel, W. Wash. Hort. Assoc. P. 25: 17, 1934.
- Insecticides—Silver nitrate**
- Newton, Hastings & Bosher, Flor. Rev. 70(1806): 15-16, 1932.
- Newton, Hastings & Boscher, Can. J. Res. 9: 31-36, 1933.
- Insecticides—Soap**
- Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 101, 1933; B. 278, 86, 1934.
- Essig, Hist. of Ent.: 403-405, 1931.
- Van der Meulen, J. Ec. Ent. 23: 1011-1012, 1930.
- Watson, Fla. B. 232: 12, 1931.
- Insecticides—Sodium arsenate**
- Anderson, Can. Dept. Mines Nat. Mus. B. 69: 68, 1932.
- biHoskins, J. Ec. Ent. 25: 1212-1224, '32.
- O'Neill, Ga. St. Ent. C. 42: 10, 1932.
- Insecticides—Sodium cyanide—Sulphuric acid**
- Moore, J. Ec. Ent. 25: 729-730, 1932.
- Insecticides—Sodium fluoride**
- iBishopp, USDA YB f. 1932: 309-310.
- Bishopp & Wood, USDA FB 801 rev.: 14-17, 1931.
- Chambers, Wis. Hort. 21: 287, 1931.
- Ehrhorn, Hawaiian Ent. Soc. P. 7: 393-394, 1931.
- biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 20-23, 1931.
- bHockenyo, J. Ec. Ent. 26: 1162-1169, 1933.
- Iddings, Ida. B. 192: 31, 1932.
- Riepp, Extermin. Log. 1(3): 12-13, '33.
- Sharkey & Simpson, J. Amer. Med. Assoc. 100: 97-100, 1933.
- Shull, Ida. News Letter 16(7): 4, 1932.
- Stevenson, Ont. Dept. Agr. B. 363: 13-14, 1931.
- Thompson, Ent. Soc. Ont. R. 63: 54-56, 1932.
- Thompson, Fla. Ent. 18: 5-10, 1934.
- Watson, Fla. Grow. 38(7): 16, 1930; 39(10): 16, 1931; 40(9): 27, 1932.
- Insecticides—Sodium fluosilicate**
- bGorham, Que. Soc. Prot. Pl. R. 25/26: 93-96, 1934.
- iHansen, Nature Mag. 16: 302-303, '30.
- Hutchison, Cal. R. f. 1931-1932: 64-65, 1933.
- biMarcovitch & Anthony, J. Ec. Ent. 24: 490-496, 1931.
- biRichardson & Haas, J. Ec. Ent. 26: 1078-1088, 1932.
- iSadtler, Chem. & Met. Engin. 37: 90, 1930.
- Wymore, Cal. Agr. Mo. B. 20: 186-187, 1931.

Insecticides—Sodium soaps

O'Kane & Westgate, N.H. TB 48, 1932.
4p.

Insecticides—Soot

Burson, Loudoun-Fauquier Breeders' Mag. 1(4): 21, 1930.

Insecticides—Standardization

iDougan, Oil, Paint & Drug Report 122(27): 15-16, 1932.

Gothard, Soap 8(6): 113, 115, 1932;
9(1): 86-87; 9(6): 89, 1933.

McLaughlin, Soap 9(2): 91-92, 1933.

Peet, Soap 5(10): 111; 6(4): 103, 105,
1930; 7(6): 105, 107, 1931.

Weldon, Pac. Rur. Press 119: 307, 1930.

Oil, Paint & Drug Report 119(24): 41-
42, 1931; 120(26): 30, 1913.

Insecticides—Status with entomologists

Peterson, J. N.Y. Ent. Soc. 40: 159-
165, 1932.

Insecticides—Stomach poisons

iAmstein, Ark. Ext. C. 330, 1934, 4p.

bBentley & Bartlett, Tenn. Pl. Dis.
Control B. 57: 12-14, 1931.

bBulger, J. Ec. Ent. 25: 261-268, 1932.

Caesar, Ont. Dept. Agr. B. 359: 2-3,
1931.

Chambers & Thompson, Wis. Dept.
Agr. B. 145: 10-11, 1933.

Coulson, J. Agr. & Hort. 33: 173, 1933.

Davis, Purdue Univ. B. 32(7): 19-20,
1932.

iDustan, Can. Dept. Agr. Ent. B. 32:
4-6, 1932.

Essig & Hoskins, Cal. Ext. C. 87: 107-
113, 1934.

iFleming & Baker, J. Agr. Res. 49: 39-
44, 1934.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.:
6-7, 1934.

iHeaton, Purdue Agr. 25: 181, 193, 1931.

McDaniel, Mich. Sp. B. 243: 3-4, 1933.

Mex. Agr. & Fomento. Principales

Plagas: 249-251, 1930.

Mote, Oreg. St. Hort. Soc. R. 24: 89,
1932.

iMunro & Riddle, N.Dak. C. 42 rev.: 5-
6, 1933.

Potter et al., N.H. Ext. B. 47: 50, '34.

Quaintance & Siegler, USDA FB 1666:
6-9, 1931.

Richardson, Iowa R. f. 1934: 96-97.

biRichardson & Haas, J. Ec. Ent. 25:
1078-1088, 1932.

bRoark, Indus. & Engin. Chem. 24: 647-
648, 1932.

Shepard & Campbell, J. Ec. Ent. 25:
143-144, 1932.

Wolters, Hawaiian Pl. Rec. 38: 269-
276, 1934.

**Insecticides—Stomach poisons—Non ar-
senical**

Sanderson, Insect Pests Farmed. 3: 38-
40, 1931.

Thompson, Cit. Ind. 13(9): 21, 24, '32.

Thompson, Fla. R. f. 1932: 72.

Insecticides—Stomach poisons—Toxicity

Bulger, P. Ent. Soc. Wash. 33: 211-212,
1931.

Bulger, J. Ec. Ent. 25: 261-268, 1932.

biCampbell, J. Ec. Ent. 23: 357-370, 1930.

Marlatt, USDA Ent. R. f. 1932: 37.

Insecticides—Strichnia sulphate

iO'Kane et al., N.H. TB 54, 1933, 23p.

Insecticides—Sulfocide

Bourne, Mass. B. 280: 214, 1932.

Insecticides—Sulphite waste

Hurt, Va. St. Hort. Soc. P. 34: 167-169,
1929.

Hurt, Va. B. 277, 1931, 10p.

Whitcomb, New Eng. Glad. Soc. YB f.
1932: 69-70.

Insecticides—Sulphur

iAdams, Fla. Grow. 42(5): 6-7, 1934.

Bibby, Tex. R. 46: 48, 1933.

bCampbell & Stone, J. Ec. Ent. 25: 967-
970, 1932.

bCampbell et al., J. Ec. Ent. 27: 1176-
1185, 1934.

Clark, Tex. Cit. Inst. P. 3: 67-69, 1934.

Clark, Tex. R. 47: 237-238, 1934.

iDeLong, J. Ec. Ent. 27: 525-533, 1934.

Eddy et al, Ky. B. 353: 207, 1934.

Edge, Indus. & Engin. Chem. Anal. ed.,
2: 371-373, 1930.

Essig, Hist. of Ent.: 452-453, 1931.

iEssig & Hoskins, Cal. Ext. C. 87: 135-
139, 1934.

Fletcher et al., Tex. R. 47: 48-49, 1934.

Gaines & Jones, Tex. R. 43: 39, 1930.

Gilbert & Popenoe, USDA FB 1371
rev.: 6-7, 1934.

Hedrick, N.Y. (Gen.) R. 51: 36-37, 39,
1932.

- Jones, Tex. R. 44: 38, 1931.
 iLockwood, Cit. Leaves 12(6): 7-8, '32.
 McGregor, Science n.s. 71: 244-245, 1930.
 iMcGregor, Cal. Agr. Mo. B. 20: 167-170, 1931.
 iMcGregor, Cal. Cit. 16: 358, 386, 1931;
 17: 182, 1932; 19: 232, 254-256, '34.
 iMcGregor, Cit. Leaves 11(5): 1-3, '31.
 iMcGregor, USDA FB 831 rev.: 10, '34.
 Mumford, Ill. R. 42: 150, 1929.
 Reinhard, Tex. R. 46: 48-49, 1933.
 bRoark, Pac. Sci. Cong. 5, P. 5: 3407-3408, 1934.
 Robinson, Oreg. B. 259: 7-10, 1930.
 Smith, Cal. Agr. Mo. B. 20: 170-171, 1931.
 Tucker, Cal. Agr. Mo. B. 19: 422-429, 1930.
 Wymore, Cal. Agr. Mo. B. 20: 187-188, 1931.
- Insecticides—Sulphur—Toxicity**
 DeLong, Crop Prot. Inst. B. 44, 1934, 6p.
- Insecticides—Sulphur compounds**
 bCampbell et al., J. Ec. Ent. 27: 1176-1185, 1934.
 Essig, Hist. of Ent.: 459-463, 1931.
- Insecticides—Sulphur dioxide—Injury**
 iZimmerman & Crocker, Amer. Soc. Hort. Sci. P. 27: 51-52, 1930.
- Insecticides—Sulphur dust**
 iCartwright, S.C. R. 47: 57-58, 1934.
 bMcGregor, J. Ec. Ent. 24: 1066-1070, 1931; 27: 543-546, 1934.
 Marlatt, USDA Ent. R. f. 1932: 6.
 iSmith, USDA C. 301: 6-7, 1933.
 Watson, Tex. Cit. 10(3): 8, 13, 1933.
 Woglum, Cal. Fr. Grow. Exch. B. 9: 15-16, 1932.
- Insecticides—Summer oil**
 J. Ec. Ent. 24: 21, 1931.
- Insecticides—Survey**
 Knight, USDA YB f. 1933: 363-364.
- Insecticides—Synthetic**
 bCampbell et al., J. Ec. Ent. 27: 1176-1185, 1934.
 bRoark, Pac. Sci. Cong. 5, P. 5: 3408, 1934.
- Insecticides—Syrline**
 Burdette, J. Ec. Ent. 25: 345, 1932.
- Headlee, Amer. Cranb. Grow. Assoc. P. 62: 18, 1931.
- Insecticides—Talc**
 Burdette, J. Ec. Ent. 23: 260-265, '30.
- Insecticides—Tar**
 Saylor, Pan-Pac. Ent. 9: 182, 1933.
- Insecticides—Tartar emetic**
 Burdette, J. Ec. Ent. 27: 213-217, '34.
 iGilmore & Milam, J. Ec. Ent. 26: 227-233, 1933.
 McAlister, P. Ent. Soc. Wash. 36: 49, 1934.
 Stiles, Okla. Ext. News 12(9): 3, 1931.
- Insecticides—Tephrosia—Patents**
 Roark, Soap 6(1): 109, 1930.
- Insecticides—Tephrosia virginiana**
 Clark, Science n.s. 77: 311-312, 1933.
 bLittle, J. Ec. Ent. 24: 741-754, 1931.
 Little, Science n.s. 73: 315-316, 1931.
 Little & Russell, Tex. R. 47: 50, 1934.
 Amer. Bot. 37: 128, 1931.
- Insecticides—Tephrosin**
 bClark, Amer. Chem. Soc. J. 53: 729-732, 3431-3436, 1931; 54: 3000-3008, 1932.
 Clark, Science n.s. 73: 17-18, 1931.
 bGersdorff, Amer. Chem. Soc. J. 53: 1897-1901, 1931.
 Hyde, USDA YB f. 1933: 33.
- Insecticides—Terminology**
 Weed, Soap 9(1): 88, 1933.
- Insecticides—Tests**
 iBoone, Sci. Amer. 148: 317, 1933.
 Chandler, Mass. Fr. Grow. Assoc. Inc. R. 37: 72-74, 1931.
 iFoster, Nat. Petrol. News 22(29): 63-64, 67, 1930.
 Hamilton, N.J. R. 52: 239-246, 1931.
 iLacroix, Conn. B. 335: 267-268, 1932; B. 359: 378, 1934.
 bList, Col. B. 385: 72-90, 1932.
 Marlatt, USDA Ent. R. f. 1932: 36-37.
 Moulton, Cal. Agr. Mo. B. 20: 751-752, 1932.
 Mumford, Ill. R. 46: 152, 1933.
 iNelson, Soap 10(8): 81-83, 85, 97, 99, 101, 103, 1934.
 iPeet, Soap 8(1): 101, 103, 105, 1932.
 iRegan, Cal. Spray-Chem. Corp. R. 7, 1932, 30p.
 bRichardson & Shepard, J. Agr. Res. 40: 1007-1015, 1930.

Insecticides—Tests *Cont'd*

bSchoene, Va. Poly. Inst. B. 283: 26-29, 32.
Stone et al., Fla. B. 251: 10-11, 1932.

Insecticides—Tests—Peet-Grady method

iPeet & Grady, Soap 8(4): 98-99, 101-102, 121, 1932.

Insecticides—Thallium

Brooks, Science n.s. 75: 105-106, 1932.
Essig, Tex. Cit. July, 1930: 15.
Munch, USDA TB 238: 21-28, 1931.
biMunch, Foote-Prints 6(1): 1-21, 1933.

Insecticides—Thallium sulphate

Clark, Tex. B. 435, 1931, 12p.
Cotton & Ellington, J. Ec. Ent. 23: 463-464, 1930.

Insecticides—Thiocyanates

biDavis & Batchelder, Amer. Chem. Soc. J. 52: 4069-4074, 1930.
Tweeddale, Flor. Exch. 81(12): 38, 1933.

Insecticides—Tobacco

Essig, Hist. of Ent.: 438-441, 1931.
Gersdorff, Glad. Rev. 9: 194, 1932.
Skinner, USDA YB f. 1931: 318.

Insecticides—Tobacco and nicotine

Quaintance & Siegler USDA FB 1666: 24-25, 1931.

Insecticides—Tobacco dust

biCarter, J. Ec. Ent. 25: 1031-1035, 1932.
Graves, Market Grow. J. 49: 439, 1931.
Quaintance & Siegler, USDA FB 1666: 25, 1931.

Insecticides—Toxicarol

bClark & Keenan, Amer. Chem. Soc. J. 55: 422-423, 1933.
bGersdorff, Amer. Chem. Soc. J. 53: 1897-1901, 1931.

Insecticides—Toxicity

Armstrong & Kuhn, Oil, Paint & Drug Report 117(16): 38C, 1930.
iBateman, USDA TB 346: 27-29, 1933.
Buchanan & Stevenson, Iowa R. f. 1933: 72.
bDe Eds, J. Ec. Ent. 26: 302-304, 1933.
biFleming, J. Agr. Res. 48: 115-130, '34.
iO'Kane, N.H. TB 54, 1933, 23p.
O'Kane, N.H. TB 58: 3-13, 1934.
Patterson, Ent. Soc. Ont. R. 65: 78-80, 1934.
Richardson, Iowa R. f. 1932: 58.
Richardson, Iowa R. f. 1934: 96-97.
bSmith, J. Ec. Ent. 25: 988-990, 1932.
USDA YB f. 1933: 33.

Insecticides—Toxicity to goldfish

Drake & Busby, Amer. Chem. Soc. J. 54: 2930-2935, 1932.

bGersdorff, Amer. Chem. Soc. J. 53: 1897-1901, 1931.

Insecticides—Trisodium arsenite

Buchanan & Stevenson, Iowa R. f. 1933: 74.

bPearson & Richardson, J. Ec. Ent. 26: 486-493, 1933.

biRichardson & Haas, J. Ec. Ent. 25: 1078-1088, 1932.

Insecticides—Vapo dust

iParker, J. Ec. Ent. 26: 718-720, 1933.

Insecticides—Volck special

Caler, J. Kans. Ent. Soc. 4: 77-98, '31.

Insecticides—Whale oil soap

Dustan, Que. Soc. Prot. Pl. R. 23/24: 36, 1932.
Lockwood, Cal. Cult. 74: 623, 1930.

Insecticides—Zinc arsenate

Lamerson & Parker, Kans. St. Hort. Assoc. Bien. R. 42: 97-98, 1934.
Marshall, Wash. B. 305: 36, 1934.

Insecticides—Zinc sulphate

Eddy et al, Ky. B. 353: 206-207, 1934.
Cit. Ind. 15(1): 23, 1934.

Insecticides and Dermatitis

iWulzberger & Weinberg, J. Amer. Med. Assoc. 95: 111-112, 1930.

Insecticides and entomogenous fungi

Hill, Yothers & Miller, Fla. Ent. 18: 1-4, 1934.

Insecticides and hay fever

Feinburg, Sci. News Letter 25: 329, 1934.

Insecticides, fungicides, herbicides

Fulmer, Ont. B. 351, 1930, 75p.

Insectivorous plants

Ames, Amer. Orchid Soc. B. 1: 91, '32.

iClarke, Sci. News Letter 24: 170, 1933.

iCollins, Nature Mag. 20: 282, 1932.

iEldredge, Pract. Micros. 1(2): 2-3, '34.

iLaurie, Amer. Flor. 74(2234): 10, 20, 1931.

biLloyd, Roy. Soc. Can. P. ser. 3: 27, xxxvii-ci, 1933.

Torrey, Torreya 31: 147, 1931.

Weed, Insect Ways: 307-313, 1930.

Insectivorous plants—Mexican plant

Sci. News Letter 24: 132, 1933.

Insectivorous plants—Pitcher plant

- iClarke, Sci. News Letter 19: 131, 1931.
iThone, Sci. News Letter 24: 102-103, 1933.

Insects

- Bryson, Ecol. Soc. Amer. B. 11(4): 19-20, 1930.
iComstock, Ways of the Six-footed, 1932. 152p.
biFelt, N.Y. St. Mus. Handbk. 6, 1929, 147p.
Graber, Ecol. Soc. Amer. B. 11(4): 16, 1930.
Hall, North Amer. Vet. 15(1): 46-48, 1934.
iSnodgrass, Smithson. Sci. Ser. 5, 1930. 353p.
iCornell Rur. School Leaf. 25(2), 1931, 43p.

Insects—Abundance

- Atkinson, Sci. Agr. 12: 200-203, 1931.
Johnson, Amer. Fr. Grow. Mag. 51(9): 11, 1931.

Insects—Adaptability

- biDuncan, Cal. St. Teach. Coll. Insects: 135-144, 1933.

Insects—Alberta

- Strickland, Ent. Soc. Ont. R. 61: 27-28, 1931.

Insects—Altitudes

- Alexander, Ann. Ent. Soc. Amer. 26: 586-590, 1933.
bCollins & Baker, J. Ec. Ent. 27: 320-327, 1934.

Insects—Attack—Damage point

- Pierce, Ent. News 45: 1-4, 1934.

Insects—Attractants, see Traps for insects—Baits**Insects—Bacterial diseases, see Bacterial diseases of insects****Insects—Baja California**

- Hutchison, Cal. Agr. Mo. B. 19: 545-546, 1930.

Insects—Behavior, see Insects—Habits and behavior**Insects—Bible**

- Birdsong, Bklyn. Ent. Soc. B. 29: 102-106, 1934.

Insects—Bioclimatograph

- Uvarov, Ecol. 13: 309-311, 1932.

Insects—Biology

- DeLong, Ann. Ent. Soc. Amer. 23: 513-520, 1930.

Insects—Bites

- bPinkus, Psyche 41: 36-37, 1934.
Williams, N.Y. St. Mus. C. 5:39-40, 1931.

Insects—Blood

- biLudwig, Ann. Ent. Soc. Amer. 27: 429-434, 1934.
Richardson, Burdette & Eagleson, Ann. Ent. Soc. Amer. 24: 503-507, 1931.
biYeager & Knight, Ann. Ent. Soc. Amer. 26: 591-602, 1933.
Sci. News Letter 23: 9, 1933.

Insects—Bound water in body

- Salt & Hinman, J. Ec. Ent. 25: 416-417, 1932.

Insects—Breeding

- Greeves-Carpenter, Nature Mag. 15: 40-41, 1930.

Insects—British Columbia

- Buckell, Ent. Soc. Ont. R. 60: 32, 1930;
R. 61: 30-32, 1931; R. 62: 32-34, '32.
Spencer, B.C. Prov. Mus. R. f. 1932: 22-24, 1933.

Insects—Broods—Nomenclature

- Prell, Ann. Ent. Soc. Amer. 23: 27-32, 1930.

Insects—Burrowing—Soil interchange

- bBryson, J. Kans. Ent. Soc. 4: 17-24, 1931; 6: 81-90, 1930.

Insects—Cages

- Bailey, J. Ec. Ent. 24: 898-901, 1931.
iCarr, Nat. Hist. 32(3): 333, 1932.
Colman, J. Ec. Ent. 25: 1108, 1932.
iSmith, J. Ec. Ent. 24: 914-916, 1931.

Insects—California

- Mackie, Cal. Agr. Mo. B. 22: 457-463, 1933.

Insects—Canada

- Twinn, Ent. Soc. Ont. R. 64: 62-80, 1933; 65: 112-128, 1934.

Insects—Civilization, Effect on

- bClassen, Ann. Ent. Soc. Amer. 26: 503-510, 1933.
Essig, J. Ec. Ent. 26: 860-872, 1933.
bSmith, Ann. Ent. Soc. Amer. 26: 510-528, 1933.
Smith, Smithson. R. f. 1934: 257-266.
bAnn. Ent. Soc. Amer. 26: 497-528, '33.

Insects—Classification

- iBrues & Melander, Classification of Insects, 1932, 672p.
- biBrues & Melander, B. Mus. Comp. Zool. 73, 1932, 672p.
- Cushman et al, P. Ent. Soc. Wash. 35: 112-115, 1933.
- Felt, J. N.Y. Ent. Soc. 42: 373-392, '34.
- biFolsom, Entomology, 4th rev. ed.: 1-29, 1934.
- Forbes, Bklyn. Ent. Soc. B. 29: 65-67, 1934.
- bMatheson, Med. Ent.: 123-125, 1932.
- biMetcalf & Flint, Fund. of Ins. Life, ed. 1: 165-181, 1932.
- biPickwell, Cal. St. Teach. Coll. Insects: 145-190, 1933.
- Woodworth, Psyche 37: 157-162, 1930.
- Insects—Collection and preservation**
- Anderson, Can. Dept. Mines Nat. Mus. B. 69: 2, 1932.
- iBeard, Amer. Boys' Bk. Bugs: 30-53, 1932.
- biBoyd, Introd. to Malariology: 347-379, 1930.
- Buckell, B.C. Ent. Soc. P. 30: 23-24, 1933.
- bDodd, Ill. St. Acad. Sci. Trans. 22: 298-329, 1930.
- biFelt, N.Y. St. Mus. Hdbk. 6: 61-100, 1929.
- iFrost, Ent. News 41: 152-153, 1930.
- Frost, Bklyn. Ent. Soc. B. 28: 233-234, 1933.
- iGunder, Bklyn. Ent. Soc. B. 25: 208, 1930.
- iHarris, Fla. Nat. n.s. 3: 93-97, 1930.
- Hatch, Univ. Okla. Biol. Surv. Pub. 2: 27-31, 1930.
- biHazeltine, Cal. St. Teach. Coll. Insects: 271-279, 1933.
- Henry, Ent. News 44: 244, 1933.
- Hussey, Bklyn. Ent. Soc. B. 29: 128-129, 1934.
- Hussey, J. N.Y. Ent. Soc. 42: 231-233, 1934.
- iKlots, Ward's Nat. Sci. Estb. Dir. Pre-serv. Ins. 1932, 29p.
- Linsley & Usinger, Pan-Pac. Ent. 10: 102-106, 1934.
- Lutz, Amer. Mus. Nat. Hist. Guide Leaf. Ser. 39, ed. 7, 1930, 27p.

- biMatheson, Med. Ent.: 455-469, 1932.
- Radcliffe, Pop. Mech. 53: 145, 1930.
- Rehn, Science n.s. 79: 568-569, 1934.
- iReyniers, Bklyn. Ent. Soc. B. 26: 256-258, 1931.
- Rodeck, Col.-Wyo. Acad. Sci. J. 1(2): 21-22, 1930.
- iRoss, Ill. St. Nat. Hist. Surv. C. 25, 1934, 24p.
- Torre-Bueno, Bklyn. Ent. Soc. B. 25: 27, 1930.
- iWhite, Nature Mag. 18: 162, 1934.
- iUSDA Ext. Ser. Rev. 3: 88, 1932.
- Insects—Collections—C. F. Adams**
- Adams, Ent. News 42: 25, 1931.
- Insects—Collections—American Museum**
- Ann. Ent. Soc. Amer. 23: 202-205, '30.
- Insects—Collection—"Biologia Centrali-Americana"**
- iOman, Ann. Ent. Soc. Amer. 27: 445-461, 1934.
- Insects—Collections—Boston Museum**
- Dow, Bost. Soc. Nat. Hist. B. 67: 8-9, 1933; B. 68: 13; B. 69: 7-8, 1933; B. 70, 5-6; B. 71: 8-9; B. 72: 16; B. 73: 7-8, 1934.
- Johnson, Bost. Soc. Nat. Hist. B. 62: 23-24, 1932; B. 64: 16-17, 1932.
- Insects—Collections—Cal. Acad. Sci.**
- Van Duzee, Pan-Pac. Ent. 9: 72, 1933.
- Insects—Collections—Canadian National**
- Weir, Can. Min. Agr. R. f. 1931-1932: 174-175.
- Insects—Collections—Colo. Agr. Coll.**
- McC Campbell, Col.-Wyo. Acad. Sci. J. 1(5): 82, 1933.
- Insects—Collections—Cornell University**
- Cornell Countrym. 31: 145, 1933.
- Insects—Collections—Germain**
- Caron, Nat. Can. 57: 89-90, 1930.
- Insects—Collections—Gunn Memorial**
- Pan-Pac. Ent. 8: 90, 1931.
- Insects—Collections—Hawaii**
- Swezey, Hawaiian Ent. Soc. P. 7: 332-334, 422-424, 1931.
- Insects—Collections—Illinois State**
- Frison, Ill. Dept. Reg. & Ed. R. 15: 29-30, 1932.
- Insects—Collections—Lebeck**
- Van Dyke, Pan-Pac. Ent. 10: 158, '34.
- Insects—Collections—Marloff**
- Ent. News 44: 213, 1933.

- Insects—Collections—Osborn**
Ent. News 45: 8, 1934.
- Insects—Collections—Ottolengui**
Watson, J. N.Y. Ent. Soc. 40: 438, '32.
- Insects—Collections—Peabody Museum**
Morse, Psyche 41: 158-163, 1934.
- Insects—Collections—Phila. Acad. Nat. Sci.**
iCadwalader, Phila. Acad. Nat. Sci. YB f. 1931: 1, 12-14.
- Insects—Collections—Pointer**
Weiss, J. N.Y. Ent. Soc. 40: 95-97, '32.
- Insects—Collections—Report of committees**
Davis, Ann. Ent. Soc. Amer. 25: 255-259, 1932.
Davis et al, J. Ec. Ent. 26: 14-24, '33.
Osborn et al, Ann. Ent. Soc. Amer. 24: 193-196, 1931.
- Insects—Collections—Rocky Mountain**
Tanner, Fluke & Brown, Rocky Mt. Conf. Ent. R. 9: 8-10, 1932.
- Insects—Collections—Snow**
James, J. Kans. Ent. Soc. 6: 66-71, '33.
- Insects—Coloration**
biFolsom, Entomology, 4th rev. ed.: 207-256, 1934.
- Insects—Commercial use**
Clark, J. Ec. Ent. 25: 137, 1932.
- Insects—Common names**
Can Dept. Agr. Ent. Br. Can. Ins. Pest Rev. Sup. Dec. 1930, 27p.
J. Ec. Ent. 24: 1273-1310, 1931.
J. Ec. Ent. 26: 1169-1170, 1933.
- Insects—Communities**
Carter, J. Ec. Ent. 23: 353-356, 1930.
bPhillips, Ecology 12: 633-649, 1931.
- Insects—Connecticut**
Britton, Conn. B. 338: 499-515, 1932.
- Insects—Control**
Albee, Ida. Dept. Agr. Bien. R. 6: 46-47, 1930.
Bailey, Vt. Com. Agr. Bien. R. 15: 29-35, 1930.
Burdette, N.J. St. Hort. Soc. P. f. 1930: 152-162, 1931.
Chambers, Wis. Cranb. Grow. Assoc. R. 45: 30-33, 1931.
bCook, U.S. Nav. Med. B. 32: 229-247, 1934.
Cory, Md. St. Hort. Soc. P. 35: 85-92, 1933; P. 36: 51-53, 1934.
- biCutright, Ann. Ent. Soc. Amer. 23: 145-148, 1930.
- iDoane, Common Pests: 95-122, 1931.
- Essig, J. Ec. Ent. 26: 869-872, 1933.
- Flint, Iowa St. Hort. Soc. Trans. 65: 227-230, 1930.
- Flint & Metcalf, Insects Man's Chief Competitors: 18-19, 1932.
- Fullaway, Hawaiian For. & Agr. 28: 59-60, 1931.
- Gourley, Md. St. Hort. Soc. R. 32: 147, 1930.
- Hayes, Golfdom 7(4): 21-23, 1933.
- iHeartsill, Tex. Cit. 6(11): 9, 27, 1930.
- Heinicke, Neb. St. Hort. Soc. P. 61: 117-118, 1930.
- Hodgkiss, Penn. St. Hort. Assoc. P. 73: 26-30, 34-35, 1932.
- Hyde, USDA YB f. 1933: 35-36.
- Hyslop, USDA Off. Rec. 10: 79, 1931.
- Jacobsen, Cal. Agr. Mo. B. 22: 111, '33.
- Hodgkiss, Penn. St. Hort. Assoc. P. 71: 89-99, 1930.
- Kelsall, N.S. Fr. Grow. Assoc. R. 69: 210, 1932.
- Mackie, Cal. Agr. Mo. B. 22: 112, 1933.
- Melander, Sci. Month. 36: 168-172, 1933.
- Merrill, Agr. Engin. 15: 109, 1934.
- biMetcalf & Flint, Fund. of Ins. Life, ed. 1: 364-416, 1932.
- Moulton, Cal. Agr. Mo. B. 20: 756-757, 1932.
- iPowers, World of Insects, 1931: 63-75.
- Ryalls, Ida. Dept. Agr. Bien. R. 6: 44-45, 1930.
- Ryan, Los Angeles Co. Comm. Agr. R. f. 1932: 9-15.
- Safro, J. Ec. Ent. 23: 162-164, 1930.
- Sanderson, Ins. Pests Farm, ed. 3: 16-22, 57-70, 1931.
- Sherwood, W. Va. Ext. C. 294, 1930, 35p.
- Strickland, Alberta Univ. Coll. Agr. B. 24: 9, 1933.
- Sullivan, Missouri St. Bd. Agr. B. 28(2): 31-32, 1930.
- Van Buren, N.Y. St. Hort. Soc. P. 77: 262-314, 1932.
- Insects—Control—Burning**
Quaintance & Siegler, USDA FB 1666: 37, 1931.

Insects—Control—Capper award

iFerris, Kans. Farm. 69(25): 1, 1931.

Insects—Control—Chemicals

bAlvord & Dietz, Indus. & Engin. Chem. 25: 629-632, 1933.

Burns, Ent. Soc. Ont. R. 60: 57-59, '30.

Melander, Sci. Month. 36: 168-172, '33.

Sanderson, Ins. Pests Farm, ed. 3: 35-36, 1931.

Insects—Control—Compared programs

Hodgkiss, Penn. St. Hort. Soc. P. 73: 35-37, 1932.

Insects—Control—Crop rotation

Neiswander, Ohio Bi-Mo. B. 145: 99-102, 1930.

Insects—Control—Efficiency

Middleton & Smith, J. Ec. Ent. 23: 289, 1930.

Insects—Control—Farm machinery

Essig, J. Ec. Ent. 26: 864-868, 1933.

Essig, Pac. Rur. Press 125: 96, 1933.

Olney, Agr. Engin. 14: 354, 1933.

Insects—Control—Flooding

Rogers, Wis. Cranb. Grow. Assoc. R. 48: 13-14, 1934.

Insects—Control—Mechanical devices

iBriggs, Farm & Ranch 52(20): 2, 1933.

iBurdette & Headlee, N.J. C. 311: 23-24, 1934.

iDaniels, Col. B. 400: 10-18, 1933.

iDudley, Canner 79(24): 12-14, 1934.

Hyde, USDA YB f. 1933: 80.

Kennedy, Ont. Agr. Coll. & Exp. Farm R. 56: 120-121, 1930.

iLanglade, Barrel & Box & Pack. 37(10): 20-21, 1932.

iRoss, La Hacienda 28: 332-333, 1933.

Sanborn, Okla. R. f. 1926/1930: 244-245.

Simpson, Md. St. Hort. Soc. P. 36: 24-25, 1934.

Missouri Farm. 23: 312, 1931.

Insects—Control—Old vs. New Methods

Hodgkiss, Penn. St. Hort. Assoc. P. 73: 30-37, 1932.

Insects—Control—Oxytfaor

Pierce, J. N.Y. Ent. Soc. 39: 159-165, 1931.

Insects—Control—Plant sterilization

Hawkins, USDA YB f. 1934: 288-289.

Insects—Control—Resistance of crop plants

Call, Kans. Bien. R. 5: 115-117, 1930.

Insects—Control—Screening

Ralston, South. Med. J. 24: 449-451, 1931.

iWells, J. Ec. Ent. 24: 1242-1247, 1931.

Insects—Control—State program

Parks, J. Ec. Ent. 24: 663-666, 1931.

Insects—Control—Winter

Klein, Cal. Cult. 75: 515, 1930; 79: 339, 1932.

Insects—Control—Wisconsin

Chambers, Wis. Cranb. Grow. Assoc. R. 47: 26-33, 1934.

Goldsworthy, Wis. Cranb. Grow. Assoc. R. 47: 33-39, 1934.

Lilly, Wis. Hort. 24: 289, 1934.

Insects—Copper in

bMelvin, Ann. Ent. Soc. Amer. 24: 485-488, 1931.

Insects—Cuba

Arango, Rev. de Agr. Cuba 14(6): 71, 1932.

Insects—Damage

iGraber et al, Ecology, 12: 547-566, 1931.

Watson, Fla. Grow. 40(4): 7, 1932.

Amer. Fr. Grow. Mag. 53(3): 14, 1933.

Miss. St. Pl. Bd. Quar. B. 10(1): 13-14, 1930.

Insects—Delaware

Stearns, Del. B. 188: 25-26, 1934.

Insects—Description

Torre Bueno, Bklyn. Ent. Soc. B. 25: 54-55, 1930.

Insects—Detection service

Swaine, Can. Lumberman 50(22): 56-57, 1930.

Insects—Development

biDuncan, Cal. St. Teach. Coll. Insects: 24-41, 1933.

biFolsom, Entomology, ed. 4 rev.: 155-196, 1934.

biKing & Slifer, J. Morph. 56: 603-619, 1934.

iMetcalfe & Flint, Fund. of Ins. Life, ed. 1: 141-164, 1932.

biSlifer, J. Exp. Zool. 67: 137-157, 1934.

biSlifer & King, J. Morph. 56: 593-601, 1934.

Insects—Digestive tract

bSwingle, Ann. Ent. Soc. Amer. 24: 177-180, 489-495, 1931.

Insects—Distribution

- bCook, Ecology, 12: 245-247, 1931.
 biFolsom, Entomology, ed. 4 rev.: 411-443, 1934.
 iFulton & Chamberlin, J. Ec. Ent. 24: 757-761, 1931.
 bSweetman, J. Ec. Ent. 26: 320-325, '33

Insects—Ecology

- Bodenheimer, Hawaiian Ent. Soc. P. 8: 18-20, 1932.
 biBorror, Ohio J. Sci. 34: 97-108, 1934.
 ibChapman, Animal Ecology, 1931, 463p.
 ibFolsom, Entomology, ed. 4 rev.: 444-511, 1934.
 Graham, Ann. Ent. Soc. Amer. 23: 532-537, 1930.
 biMetcalf & Flint, Fund. of Ins. Life, ed. 1: 439-463, 1932.
 biWolcott, Ec. Ent. of West Indies: 47-70, 1933.

Insects—Ecology—Maps

- ibHartzell, J. Ec. Ent. 24: 151-157, 1931.

Insects—Ecology—Tree trunks

- Ingles, J. Ent. & Zool. 25: 57-59, 1933.

Insects—Eggs

- iBartram, Nature Mag. 21: 11, 1933.
 Bradley, J. Ec. Ent. 27: 289, 1934.
 biHenshaw & Henshaw, Biol. B. 64: 348-357, 1933.
 iO'Kane & Baker, N.H. TB 60: 1934, 12p.
 biPayne, J. Morph. 53: 523-591, 1932.
 iPhillips, Nature Mag. 19: 95-97, 1932.
 bRozeboom, Amer. J. Hyg. 20: 496-501, 1934.
 Schmuck & Metz, Science, n.s. 74: 600-601, 1931.

- biSlifer, Physiol. Zool. 3: 503-518, 1930.

Insects—Embryology

- ibEastham, Biol. Rev. 5: 1-29, 1930.

Insects—English Poetry

- Eddy, Sci. Month 33: 148-163, 1931.
 Fulkner, Sci. Month. 33: 53-73, 1931.

Insects—Evolution

- Carpenter, Raymond & Petrunkevitch, Amer. J. Sci. Ser. 5, 21: 531-539, '31.
 Tillyard, Amer. J. Sci. Ser. 5, 23: 529-539, 1932.

Insects—Eyes

- Bostian, Penn. Acad. Sci. P. 4: 82-84, 1930.
 iPratt, Nature Mag. 21: 15-16, 1932

Insects—Flight

- iA.K., Sci. Amer. 88: 52, 1932.
 biArnott, Ent. Soc. Ont. R. 65: 98-107, 1934.
 Bjerknes, Carnegie Inst. of Wash. Y.B. 31: 311, 1932.
 Brower, Ent. News 41: 10-15, 1930.
 O'Byrne, Ent. News 41: 20, 1930.
 Phillips, N.Y. St. Hort. Soc. P. 77: 51, 1932.
 Robertson, Ent. News 41: 154-157, '30.
 biSnodgrass, Smithson. R. f. 1929: 383-421.
 Stanley, Ann. Ent. Soc. Amer. 25: 366-368, 1932.
 iStirrett, Beall & Lindsay, Ent. Soc. Ont. R. 64: 12-21, 1933.
 iThone, Sci. News Letter 19: 246-247, 1931.

Insects—Flight—Speed

- iAaron, Sci. Amer. 147: 149-150, 1932.

Insects—Food habits

- Brues, Psyche 37: 1-14, 1930.
 Brues Science 71 n.s. (1828 sup): xiii-xiv, 1930.
 biDuncan, Cal. St. Teachers Coll. Insects: 42-56, 1932.
 biPickwell, Cal. St. Teach. Coll. Insects: 57-67, 1933.

Insects—Forecasts

- Cooley, Mont. R. 36: 86-87, 1929.
 Flint & Chandler, Ill. Hort. Soc. Trans. 65: 437-454, 1932.
 Gibson, Can. Dominion Exp. Farms Seasonable Hints 47 Prairie ed.: 10, 1930.
 O'Kane, Amer. Fr. Grow. Mag. 50(2): 16, 1930.
 Pickett, N.S. Fr. Grow. Assoc. R. 67: 179-182, 1930; R. 68-69: 19-22, 1931; R. 71: 39-42, 1934.
 biWall, J. Ec. Ent. 25: 1043-1048, 1932.

Insects—Freezing

- bMcBride & Mason, J. Ec. Ent. 27: 906, 1934.

Insects—Fungous diseases, see Fungous diseases of insects**Insects—Freight cars**

- USDA Off. Rec. 9(16): 8, 1930.

Insects—Genetics, see name of specific insects (e.g. Drosophila sp.—Genetics; Habrobracon sp.—Genetics.)

Insects—Geographical distribution

Ent. News 41: 52, 1930.

Insects—Germ cells

iBaumgartner & Payne, Science n.s. 72: 199-201, 1930.

Insects—Growth

Bodenheimer, Quar. Rev. Biol. 8(1): 92-95, 1933.

Brues, Psyche 41: 42-48, 1934.

Insects—Habits and behavior

iCheesman, Insect Behavior, 1933, 189p.

iDixon, Amer. Mag. 109(6): 73, 148, 151-152, 1930.

biFolsom, Entomology, ed. 4 rev.: 387-410, 1934.

iHowes, Pop. Mech. 57: 442-445, 1932. Lutz, Sci. News Letter 18: 61, 1930.

Lutz, Science n.s. 72 (1855 sup.): xii, 1930.

McVeagh, Nat. Mag. 20: 92, 1932.

biMetcalf & Flint, Fund. of Ins. Life, ed. 1: 498-521, 1932.

Miller, Ohio St. Univ. Abst. Drs. Dissert. 9: 201-206, 1932.

iPowers, World of Insects: 100-101, '31.

iSchneirla, Learning and Orientation in Ants, 1929, 143p.

Schneirla, J. Comp. Psychol. 15: 243-266, 1933.

Walsh, Cath. World 139: 550-551, 1934

biWheeler, Demons of the Dust, 1930, 378p.

iWoodward, Travel 62(2): 35-38, 50, 1933.

iCornell Rur. School Leaf. 24(4): 9-16, 1931; 26(2): 12, 1932; 27(4): 17-18, 1934.

iLit. Dig. 115(19): 25-26, 1933.

iSci. News Letter 20: 248, 1931.

Insects—Hawaii

Bryan, Mid-Pacific Mag. 42: 321-323, 1931.

Illingworth, Hawaiian Ent. Soc. P. 7: 408-409, 1931.

Insects—Head

bCrampton, Bklyn. Ent. Soc. B. 27: 19-49, 1932.

biSnodgrass, Smithsonian. R. f. 1931: 443-489, 1932.

Walker, Can. Ent. 63: 75-81, 1931.

biWhithead, Can. J. Res. 6: 227-252, '32.

Wiesmann, Ent. News 41: 28, 1931.

Insects—Hearing

biWever & Bray, J. Cell. & Comp. Physiol. 4: 79-93, 1933.

Insects—Heart-beat reversal

bGerould, Biol. B. 64: 424-431, 1933.

Insects—Heat production

bFlanders, Ann. Ent. Soc. Amer. 26: 529-535, 1933.

Insects—Hibernation

iAaron, Nature Mag. 18: 365-369, 1931.

Clark, Sci. News Letter 24: 212, 1933.

Furbay, Guide to Nature 26: 58-59, 1934.

Herrick, Lit. Dig. 109: 25, Je. 13, 1931.

iHolmquist, Ecology 12: 387-400, 1931.

Lockwood, Cal. Agr. Mo. B. 22: 279-280, 1933.

biMail, J. Agr. Res. 41: 571-592, 1930.

Sacharov, Sci. News Letter: 19: 184, 1931.

Swezey, Hawaiian Ent. Soc. P. 7: 383-384, 1931.

iWeed, Insect Ways: 282-296, 1930.

iCornell Rur. School Leaf. 25(3): 29-33, 1932; 27(2): 6-10, 1933.

Insects—History—Geological

Carpenter, Psyche 37: 15-34, 1930.

Insects—Hocking River bottom

biLudwig, Ohio Biol. Surv. B. 36: 228-249, 1932.

Insects—Hybrids

iSweadner, Ent. News 45: 231-234, '34.

iWickwire & Calale, Can. Ent. 65: 265-268, 1933.

Insects—Hydrogen ionization

Pierce, J. N.Y. Ent. Soc. 39: 159-165, 1931.

Insects—Ignorance concerning

Lutz, Can. Ent. 64: 25-29, 49-56, 73-78, 1932.

Insects—Imported

Swezey, Hawaiian Ent. Soc. P. 7: 516, 1931.

iWebster, Northw. Fr. Grow. 2(31): 5, 1930.

Insects—Infestation—Hallucination

Smith, Bklyn. Ent. Soc. B. 29: 208-212, 1934.

†Insects—Injurious and beneficial

Barre, S.C. R. 43: 59-74, 1930.

- Beard, Amer. Boys' Bk. Bugs: 305-359, 1932.
- Brannon, Better Crops 17(2): 22, 49, 1931.
- Call, Kans. Bien. R. 5: 103-118, 1930.
- Clausen, Smithsonian. R. f. 1932: 353-362, 1933.
- Cooley, Mont. B. 238: 16-23, 1930.
- biDuncan, Cal. St. Teach. Coll. Insects: 236-247, 1933.
- Fletcher, Penn. St. Hort. Assoc. P. 73: 42-44, 1932.
- Gilmore et al, Mass. Fr. Grow. Assoc. Inc. R. 37: 130-131, 1931.
- Glasgow, N.Y. St. Hort. Soc. P. 76: 10-19, 1931.
- Haseman, Missouri B. 300: 71, 1931.
- Holloway, Facts about Sugar 25: 744-746, 1930.
- iHouser, Ohio B. 478: 41-46, 1931.
- Howard, Hist. of Appl'd Ent.: 134-142, 1930.
- Hyslop, USDA Off. Rec. 11: 132, 1932.
- Hyslop, J. Ec. Ent. 26: 692-694, 1933.
- Keifer, Cal. Agr. Mo. B. 20: 249-250, 1931.
- Leefmans, Pac. Sci. Cong. 4, P. 4: 561-568, 1930.
- iLinfield, Mont. R. 38: 42-47, 1931.
- McLaine, Ent. Soc. Ont. R. 65: 90-93, 1934.
- Marcovitch, Tenn. R. 42: 34-35, 1929.
- Osborn, J. Ec. Ent. 24: 26, 1931.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(11): 1-2, 1930.
- iSheaffer, Ind. Dept. Conserv. Pub. 103: 1930, 99p.
- Spencer, Ent. Soc. Ont. R. 60: 82-84, 1930.
- Strand, Mont. B. 269: 16-25, 1932.
- Strong, USDA PQCA R. f. 1931: 68-72.
- Swezey, Hawaiian Ent. Soc. P. 7: 483-484, 1931.
- Symons, Univ. Md. & St. Bd. Agr. Bien. R. f. 1928/1930: 118.
- Van Buren & Eastman, N.Y. Dept. Agr. & Markets, C. 467, 1933, 90p.
- Willard, Pac. Sci. Cong. 4, P. 4: 137-138, 1930.
- USDA SRA PQCA List of Interceptions f. 1929: 249-331, 1930; f. 1930/1931: 201-368, 1932; f. 1931/1932: 173-244; f. 1932/1933, 64p.
- USDA YB f. 1932: 66-72.
- Wis. B. 421: 78-89, 1932.
- Insects—Injurious, beneficial—Canada**
- Gilliatt, Sci. Agr. 16: 408, 1932.
- Weir, Can. Min. Agr. R. f. 1931/1932: 176.
- Insects—Injurious, beneficial—Conn.**
- Britton, Conn. Pom. Soc. P. 38: 28-31, 1929; P. 39: 34-38, 1930; P. 40: 19-22, 1931; P. 41: 62-64, 1932.
- Insects—Injurious, beneficial—Haiti**
- Smith & Audant, J. Ec. Ent. 23: 972-979, 1930.
- Insects—Injurious, beneficial—Kansas**
- iSmith, J. Kans. Ent. Soc. 5: 65-92, '32.
- Smith & Kelly, J. Kans. Ent. Soc. 6: 37-59, 1933.
- Insects—Injurious, beneficial—Mexico**
- Madariaga, Mex. Univ. Inst. Biol. Anal. 2: 279-289, 1931.
- Miranda, Rev. Unidas 47(5): 42-43, 1931.
- Plummer, J. Ec. Ent. 24: 1314-1315, 1931.
- Insects—Injurious, beneficial—Montana**
- Cooley, Mont. B. 238, 1930, 23p.
- Strand, Mont. B. 269: 1932, 29p.
- Insects—Injurious, beneficial—Utah**
- iKnowlton, Utah Acad. Sci. P. 8: 143-146, 1931; P. 9: 79-83, 1932; P. 10: 159-162, 1933.
- Insects—Insect pest surveys, see also Insects—Surveys**
- Bailey, Vt. Comm. Agr. Bien. R. 17: 69, 1934.
- Drake, Iowa Agr. Res. R. f. 1931: 60.
- iHouser, Ohio Bi-Mo. B. 18: 119-122, 1933.
- Hyde, USDA YB f. 1933: 81-82.
- Hyslop, J. Ec. Ent. 24: 463-465, 1931.
- Mackie, Cal. Cit. 16: 514, 1931.
- Marlatt, USDA Ent. R. f. 1931: 84-85; R. f. 1932: 35-36; R. f. 1933: 46-47.
- Nelson, Can. Expt. Farms. Tobacco Div. R. f. 1930: 21-22.
- Strong, USDA Ent. R. f. 1934: 3-4.
- Wicks, Cal. Dept. Agr. Sp. Pub. 115: 158, 1932.
- Williams, Ohio B. 532: 46, 1934.
- Cal. Agr. Mo. B. 19: 772, 1930.

- Insects—Insect pest surveys** *Cont'd*
 USDA Off. Rec. 10: 98, 127, 214, 275, 1931; 11: 78, 1932.
- Insects—Insect pest surveys—Arizona**
 Lebert, Ariz. Com. Agr. & Hort. R. 21-22: 54-64, 1931.
- Insects—Insect pest surveys—California**
 Mackie, Cal. Agr. Mo. B. 21: 481-483, 1932; B. 22: 468-470, 1933; B. 23: 411-414, 1934.
- Insects—Insect pest surveys—Canada**
 Weir, Can. Min. Agr. R. f. 1932: 181; R. f. 1933/1934: 61-62.
- Insects—Insect pest surveys—Conn.**
 Britton, Conn. B. 349: 370-382, 1933; B. 360: 389-404, 1934.
 Slate, Conn. B. 357: 124, 1934.
- Insects—Insect pest surveys—Indiana**
 Wallace et al, Ind. Dept. Conserv. R. 14: 49-50, 1932.
- Insects—Insect pest surveys—Iowa**
 iJaques, Iowa Acad. Sci. P. 39: 257-260, 1932.
- Insects—Insect pest surveys—Kansas**
 Grimes, Kans. Bien. R. 7: 100, 1934.
 Liston, Kans. Ent. Comm. Bien. R. 14: 3-7, 1934.
 Yapp, Kans. Ent. Comm. Bien. R. 14: 8-13, 1934.
- Insects—Insect pest surveys—Miss.**
 Lyle, Miss. St. Pl. Bd. Quar. B. 11: 11-13, 1931.
- Insects—Insect pest surveys—Missouri**
 Sullivan, Missouri St. Bd. Agr. B. 28(12-B, Pt. 2): 56-57, 1930.
- Insects—Insect pest surveys—N.H.**
 Kendall, N.H. B. 280: 18, 1934.
- Insects—Insect pest surveys—Ohio**
 Houser & Polivla, Ohio B. 548: 41-42, 1935.
- Insects—Insect pest surveys—Oklahoma**
 Whitehead, Okla. R. f. 1932/1934: 259-260.
- Insects—Insect pest surveys—Penn.**
 Guyton, Penn. St. Hort. Assoc. News 8: 12-13, 1931.
- Insects—Insect pest surveys—P.R.**
 Leonard, P.R. Dept. Agr. J. 16: 59-64, 1932.
- Insects—Iowa**
 biHendrickson, Iowa St. Coll. J. Sci. 4: 49-175, 1930.
- Jacques Iowa Acad. Sci. P. 41: 305-307, 1934.
- Insects—Jumping ability**
 McClure, Can. Ent. 44: 145-147, 1933.
- Insects—Kaula Island**
 Bryan, Hawaiian Ent. Soc. P. 8: 245-246, 1933.
- Insects—Laboratories**
 Skinner & Reed, Ind. R. 43: 39-40, '31.
- Insects—Largest**
 Weed, Insect Ways: 79-104, 1930.
- Insects—Legends**
 Brown, Amer. Folklore, Insect Lore, 1930, 8p.
 Essig, Hist. of Ent.: 41-47, 1931.
 Eyer, Purdue Agr. 28(19): 25, 1933.
 iHawais, Nature Mag. 21: 285-287, '33.
 bWeiss, J. N.Y. Ent. Soc. 38: 35-37, 127-133, 1930.
- Insects—Length of life**
 Howard, Insect Menace: 1-17, 1931.
- Insects—Light traps, see Traps for insects**
 —Light
- Insects—Locomotion**
 biDuncan, Cal. St. Teach. Coll. Insects: 95-100, 1933.
 iYeager & Swain, Iowa J. Sci. 8: 519-525, 1934.
- Insects—Losses caused by**
 iBartlett, Country Home 54(8): 40, '30.
 iBliss, Iowa Ext. R. f. 1934: 20-21.
 iBolen, Pop. Sci. Month. 124(6): 6, '34.
 Brannon, Better Crops 16(6): 62, 1931; 17(2): 22, 1931.
 iBrannon, South. Cult. 88(23): 8, 1931.
 iBruce, E. L. Co. Memphis. Prot. to Forest Products against Attack by Termites: 7, 1931.
 C.L.L., Flor. Exch. 75(7): 13, 1930.
 Chambers, Wis. Cranb. Grow. Assoc. R. 48: 11, 1934.
 Chapman, Nor'west Farm. 51(15-16): 22-24, 1932.
 iDavis, Amer. Lumberm. 58(1922): 46, 1931.
 Davis, J. Ec. Ent. 26: 72-79, 1933.
 Dietrick, Va. Fr. 19(12): 9, 1931.
 Doane, Common Pests: 57-58, 1931.
 Drake, Bur. Farm. 10(1) Iowa Farm. Bur. Mess.: 11, Sept. 1934.
 Eades, Can. Dept. Int. For. Serv. B. 80: 93, 1932.

- Evenden, Northw. Sci. 4: 51, 1930.
 Felt, Sci. Month. 35: 59-62, 1932.
 Gwin, Extermin. Log 2(12): 11, 1934.
 Hall, North Amer. Vet. 15(4): 60, 15(6): 55, 1934.
 Hammond, Que. Soc. Prot. Pl. R. 25/26: 72-74, 1934.
 Hearle, Can. Dept. Agr. Pam. 147 n.s.: 7-8, 1932.
 Hearle, B.C. Ent. Soc. P. 30: 14-15, 1933.
 Howard, Insect Menace: 157-170, '31.
 Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus., Wash. D.C. Doc. Material 2: 195, 1930.
 iHyslop, Pop. Sci. Month. 119(4): 39, 1931.
 Hyslop, Sci. News Letter 19: 324, 1931.
 Jardine, Oreg. Bien. R. f. 1928/1930: 57.
 Jennings, Extermin. Log 1(5): 6-7, 1933.
 Knight, Chemicals 38(25): 9, 1933.
 Laake & Cushing, J. Ec. Ent. 23: 966-972, 1930.
 iLaHue, Purdue Agr. 28: 62, 1934.
 iLichtenberg, Extermin. Log 1(7): 10, 1933.
 iLong, Sci. Amer. 146: 102-103, 1932.
 iLuckiesh, Elect. World 101: 718, 1933.
 Maheux, Nat. Can. 59: 243-244, 1932.
 Marlatt, Inter-Amer. Conf. Agr. Delegates of USA R. f. Sept. 8-20, 1930: 29-30.
 Metcalf & Flint, Fund. of Ins. Life: 41-42, 1932.
 Milburn, Pictorial Rev. 34(8): 44, '33.
 Mohler, USDA FB 1625: 16-17, 1930.
 Moore, Sci. News Letter 17: 8, 1930.
 Mumford, Ill. R. 46: 159, 1933.
 iPlank, Cal. Agr. Mo. B. 22: 367-372, 1933.
 bRoark, Indus. & Engin. Chem. 24: 646, 1932.
 Salman, Cal. Agr. Mo. B. 22: 136, 1933.
 Schwing, Facts about Sugar 27: 397-398, 1932.
 Snapp, Md. St. Hort. Soc. R. 32: 190, 1930.
 iSnyder, Pan-Amer. Mag. 42: 261-262, 1930.
 Stone, Soap 8(12): 95, 1932.
 iStrayer, Iowa Agr. 33: 36, 1932.
 Strong, Science n.s. 79(2044 sup.): 13, 1934.
 Summers & Burgess, J. Ec. Ent. 26: 51-54, 1933.
 Thomas, Oil, Paint & Drug Report. 123(24): 33, 1933.
 Trent, Okla. Ext. C. 301: 43, 1933.
 Trigg, Oil, Paint & Drug Report. 123(24): 34, 1933.
 Vigor, Sask. Prov. Dept. Agr. R. 24: 18, 1929.
 Weir, Can. Min. R. f. 1933/1934: 55.
 White, Oil, Paint & Drug Report. 124(24): 17, 1933.
 Wolff, Oil, Paint & Drug Report. 123(24): 19, 1933.
 Wymore, Cal. Cult. 76: 404, 1931.
- Insects—Manitoba**
 Mitchener, Ent. Soc. Ont. R. 61: 20-22, 1931; R. 62: 24-26, 1932.
 Mitchener & Criddle, Ent. Soc. Ont. R. 60: 23-26, 1930.
- Insects—Mating**
 iSchmucker, Wagner Free Inst. Sci. B. 8: 94-101, 1933.
- Insects—Maui**
 Swezey, Hawaiian Ent. Soc. P. 7: 493-504, 1931.
- Insects—Mauna Kea Mt., Hawaii**
 Swezey & Williams, Hawaiian Ent. Soc. P. 8: 191-192, 1932.
- Insects—Metabolism**
 bBodenheimer & Schmidt, J. Ec. Ent. 24: 1090-1093, 1931.
 biCotton, J. Ec. Ent. 25: 1088-1103, '32.
 bHeistand, Ind. Acad. Sci. P. 41: 441-444, 1932.
 biHorn, Penn. Acad. Sci. P. 7: 75-78, '33.
 Marlatt, USDA Ent. R. f. 1932: 37-38.
 Richardson, Iowa R. f. 1931: 61-62.
 Richardson, Iowa R. f. 1934: 96.
- Insects—Metamorphosis**
 iEvans, J. Exp. Biol. 9: 314-321, 1932.
 iKrause, Nature Mag. 19: 220-221, '32.
 bMatheson, Med. Ent.: 120-123, 1932.
 iMetcalf & Flint, Fund. of Ins. Life ed. 1: 141-164, 1932.
 iSnodgrass, Smithsonian. Sci. Ser. 5: 226-261, 1930.

Insects—Mexico

Nininger, J. Kans. Ent. Soc. 3(1): 28, 1930.

bRoberts, J. N.Y. Ent. Soc. 42: 249-262, 1934.

Insects—Michigan

Pettit & Hutson, Ent. Soc. Ont. R. 61: 33-35, 1931.

Insects—Micro-photography

iColwell, Pop. Mech. 60: 202-205, 125A, 1933.

Insects—Migration

Carter, Pan-Pac. Ent. 6: 133-134, '30.

Emery, Ent. News 45: 50, 1934.

Insects—Mimicry

biDuncan, Cal. St. Teach. Coll. Insects: 118-121, 1933.

Fernald, Ent. News 43: 163-164, 1932.

Guenther, tr. by Miall, Naturalist in Brazil: 315-318, 1931.

iGunder, Bklyn. Ent. Soc. B. 28: 39, '33.

iHowes, Nature Mag. 19: 351, 1932.

iLeonhardt, Nature Mag. 22: 267-270, 1933.

McAtee, Smithson. Misc. Coll. 85(7), 1932, 201P.

McAtee, Ent. News 45: 57-60, 1934.

bMcAtee, Science n.s. 79: 361-363, 1934.

iPenkala, Nature Mag. 22: 267-270, '33.

biPickwell, Cal. St. Teach. Coll. Insects: 110-121, 1933.

Poulton, Science n.s. 74: 345-360, 1931.

iRamme, Nature Mag. 21: 235-237, '33.

iWeed, Insect Ways: 105-139, 1930.

Pop. Mech. 57: 954, 1932.

Insects—Models

iGrimes, Printer's Ink 163(10): 40-41, 1933.

Insects—Molokai—Hawaii

Swezey, Hawaiian Ent. Soc. P. 7: 485-488, 1931; P. 8: 273-274, 1933.

Williams, Hawaiian Ent. Soc. P. 8: 393, 1934.

Insects—Morphology

biClark, Ohio J. Sci. 34: 121-128, 1934.

biCrampton, J. N.Y. Ent. Soc. 39: 323-356, 1931.

biDuncan, Cal. St. Teach. Coll. Insects: 7-23, 1933.

iFerris, Can. Ent. 66: 145-150, 1934.

Hayes, Ann. Ent. Soc. Amer. 23: 521-525, 1930.

Marlatt, USDA Ent. R. f. 1931: 85.

bMatheson, Med. Ent.: 117-120, 1932.

biMetcalf & Flint, Fund. of Ins. Life ed. 1: 80-97, 1932.

biMohr, Ill. St. Acad. Sci. Trans. 22: 263-284, 1929.

biRichards, Ent. Amer. n.s. 13: 1-43, '32.

biRiley & Johannsen, Med. Ent.: 102-116, 1932.

biShepard, Ann. Ent. Soc. Amer. 23: 237-260, 1930.

Insects—Mouth parts

Dean, Kans. St. Hort. Soc. Bien. R. 41:

217-221, 1932.

iGoldman, Trans. Amer. Ent. Soc. 59: 94-95, 1933.

biMetcalf & Flint, Fund. of Ins. Life, ed. 1: 119-140, 1932.

iPickwell, Cal. St. Teach. Coll. Insects: 57-67, 1933.

Ruckes, J. N.Y. Ent. Soc. 42: 227-229, 1934.

iWalker, Can. Ent. 64: 223-229, 1932.

Insects—Multiplication

Haseman, Missouri B. 300: 71, 1931.

Insects—Nerve lesions

biHartzell, Boyce Thompson Inst. Contrib. 6: 211-223, 1934.

Insects—Nervous system

biHilton, J. Ent. & Zool. 26: 7-12, 1934.

Insects—New Brunswick

Gorham et al, Ent. Soc. Ont. R. 60: 10-14, 1930; R. 61: 13-17, 1931; R. 62: 17-20, 1932.

Insects—Newfoundland

Cockerell, Can. Ent. 62: 213-214, 1930.

Insects—New York

Belkin, Bklyn. Ent. Soc. B. 28: 220-222, 1933.

Cooper, Bklyn. Ent. Soc. B. 27: 189-195, 1932.

Insects—Nocturnal adaptations

bCrawford, Penn. Acad. Sci. P. 5: 54-61, 1931.

Insects—North-Eastern Labrador

Hantzsch, Can. Field-Nat. 45: 86-87, 1931.

Insects—Northern Alberta

Strickland, Ent. Soc. Ont. R. 60: 30, 1930; R. 62: 31-32, 1932.

Insects—Nova Scotia

Gilliatt, Ent. Soc. Ont. R. 60: 6-10,

- 1930; R. 61: 10-13, 1931; R. 62: 14-17, 1932.
- Pickett, N.S. Fr. Grow. Assoc. R. 67: 179-181, 1930.
- Insects—Nutrition**
- Betten, N.Y. (C.) R. 45: 120, 1932.
- biChapman, Animal Ecology: 155-180, 1931.
- Marlatt, USDA Ent. R. f. 1932: 38.
- Melampy & Wolfenbarger, N.Y. (C.) R. 46: 108-109, 1933.
- Phillips, N.Y. (C.) R. 44 Pt. 2: 47, '31.
- Richardson, Iowa Agr. Res. R. f. 1931: 61-62.
- Richardson, Iowa R. f. 1934: 96.
- Insects—Ohio**
- Houser, Nat. Shade Tree Conf. P. 7: 131-132, 1931.
- Insects—Ontario**
- Caesar et al, Ent. Soc. Ont. R. 60: 17-23, 1930; R. 61: 7-8, 1931; R. 62: 7-14, 1932.
- Insects—Origin**
- biDuncan, Cal. St. Teach. Coll. Insects: 191-205, 1933.
- Rasmussen, Wis. Hort. 22: 86, 1931.
- Insects—Outbreaks**
- Chambers, Wis. Dept. Agr. B. 141: 88-89, 1933.
- Colglazier, Kans. Farm. 68(40): 10, '31.
- iGranovsky, Minn. Hort. 62: 113, 118, 1934.
- Hungerford, Kans. St. Hort. Soc. Bien. R. 41: 39-42, 1932.
- biMaheux, Nat. Can. 59: 59-72, 1932.
- Martin, Ont. Dept. Agr. R. f. 1929: 50, 1930.
- Insects—Oxygen consumption**
- Hiestand, Ind. Acad. Sci. P. 40: 345-346, 1931.
- Insects—Photography**
- iBrownell, Amer. Photography 28: 434-437, 568-571, 1934.
- Dunlop, Biol. Photo. Assoc. J. 1: 72-76, 1932.
- Gunder, Can. Ent. 62: 215, 1930.
- iHacker, Nature Mag. 23: 1, 2, 1934.
- Hall, Pop. Sci. Month. 122(4): 49, 98, 1933.
- iHowes, Amer. Photography 26: 592-595, 1932.
- iKlugh, Amer. Photography 26: 158, 344, 405-408, 1932.
- iLeonard, Pop. Sci. Month. 124(1): 46, '34.
- iPhillips, Nature Mag. 21: 210-211, '33.
- iPratt, Amer. Ann. of Photography 44: 183-189, 1930.
- Pratt, USDA Off. Rec. 9(41): 8, 1930.
- iSpencer, Amer. Photography 26: 188-190, 1932.
- Sprague, Nature Mag. 18: 266, 1931.
- Insects—Physicochemical environment**
- biMetcalfe & Flint, Fund. of Ins. Life ed. 1: 464-497, 1932.
- Insects—Physiology**
- biFolsom, Entomology ed. 4 rev.: 30-154 [1934].
- bGerould, Biol. B. 64: 424-431, 1933.
- Marlatt, USDA Ent. R. f. 1931: 85-86.
- biMetcalfe & Flint, Fund. of Ins. Life ed. 1: 98-118, 1932.
- Phillips, Ann. Ent. Soc. Amer. 23: 525-531, 1930.
- Insects—Plant resistance, see Insects—Resistant plants**
- Insects—Polyembryony**
- Engelhardt, Bklyn. Ent. Soc. B. 26: 197, 1931.
- Johnson, Bost. Soc. Nat. Hist. B. 62: 23, 1932.
- Johnson, J. N.Y. Ent. Soc. 42: 143, '34.
- Insects—Population**
- Chapman, Hawaiian Acad. Sci. P. 7: 15, 1932.
- biGause, Quar. Rev. Biol. 7: 27-46, 1932.
- biGray, Ecology 14: 356-367, 1933.
- iHills, J. Ec. Ent. 26: 906-910, 1933.
- Insects—Population—Florida celery**
- iWisecup & Miller, Fla. Ent. 17: 53-62, 1933.
- Insects—Population—Fluctuation**
- biChapman, Hawaiian Ent. Soc. P. 8: 279-297, 1933.
- Insects—Population—Forests**
- bBrues, Amer. Nat. 67: 385-406, 1933.
- Insects—Population—Kansas**
- iSmith, J. Kans. Ent. Soc. 7: 37-51, '34.
- Insects—Population—Measuring**
- Barrett, J. Ec. Ent. 26: 873-879, 1933.
- DeLong, J. Ec. Ent. 24: 1108-1109, '31.
- DeLong, Ann. Ent. Soc. Amer. 25: 13-17, 1932.

Insects—Population—Measuring *Cont'd*

Dunn, Que. Soc. Prot. Pl. R. 25/26:
96-100, 1934.

Flanders, J. Ec. Ent. 25: 934, 1932.

Insects—Prairie provinces

bAtkinson, Sci. Agr. 12: 200-203, 1931.

Gibson, Can. Dom. Exp. Farms Seasonable Hints 47: 10-11, Spring '30.

Insects—Proboscis response

bAbbott, Ann. Ent. Soc. Amer. 25: 241-244, 1932.

Insects—Quebec

Coulson & Godbout, Que. Pom. & Fr. Grow. Soc. R. 36: 95-96, 1929.

Maheux, Ent. Soc. Ont. R. 62: 23, '32.

Maheux & Petch, Ent. Soc. Ont. R. 60: 14-17, 1930.

Petch, Ent. Soc. Ont. R. 61: 18-19, 1931; R. 62: 20-22, 1932.

Petch, Que. Soc. Prot. Pl. R. 25/26: 88-90, 1934.

Insects—Radiant energy

Betten, N.Y. (C.) R. 45: 120, 1932.

Insects—Radiography

biFricke, Biol. Photo. Assoc. J. 1: 90-91, 1932.

Insects—Rearing

iBrindley & Richardson, Iowa St. Coll. J. Sci. 5: 211-222, 1931.

biDuncan, Cal. St. Teach. Coll. Insects: 257-270, 1933.

biSmith, J. Agr. Res. 43: 547-557, 1931.

iWolcott, P.R. Univ. J. Agr. 18: 417-428, 1934.

Pop. Mech. 55: 555, 1931.

Insects—Regeneration

iPratt, Nature Mag. 16: 304-306, 1930.

Insects—Reproduction

biDuncan, Cal. St. Teach. Coll. Insects: 68-86, 1933.

Insects—Research—Latin square plats

iHartzell, J. Ec. Ent. 23: 747-753, 1930.

Insects—Resistance to control

bGinsburg, J. Ec. Ent. 27: 1186-1188, 1934.

bQuayle, Cal. B. 542: 65-67, 1932.

iWebster, Northw. Fr. Grow. 2(31): 5, 1930.

biWebster, J. Ec. Ent. 26: 1016-1021, '33.
White, USDA YB f. 1933: 367-368.

Insects—Resistant cabbage

Greger, Market Grow. J. 53: 246, 1933.

Insects—Resistant clover

iHollowell, Loudoun-Fauquier Mag. 3(1): 44, 1931.

biJewett, J. Ec. Ent. 26: 1135-1137, '33.

Insects—Resistant corn

Cartwright, S.C. B. 266: 12-26, 1930.

Ellinger & Chorine, Internat. Corn Borer Invest. Sci. R. 3: 99-100, 1930.

iMarston, Amer. Soc. Agron. J. 22: 986-992, 1930.

iRoubaud, Internat. Corn Borer Invest. Sci. R. 3: 1-27, 1930.

iVouk, Internat. Corn Borer Invest. Sci. R. 3: 116-120, 1930.

Insects—Resistant cotton

South. Cult. 89(16): 6, 1931.

Insects—Resistant elms

Liming, Amer. Nurserym. 57: 66, 1933.

Insects—Resistant grain

Martin, USDA YB f. 1933: 197.

Insects—Resistant peas

Clark, Wis. B. 425: 93-94, 1932.

Insects—Resistant plants

iCates, Country Gentlm. 102(1): 6, 48, 192, 1932.

Clark, Wis. B. 425: 93-94, 1932.

bDeLong, Science n.s. 80: 320-321, 1934.

Felt & Bromley, J. Ec. Ent. 24: 437-443, 1931.

Grimes, Kans. Bien. R. 7, 110-111, '34.

Jones et al, Hilgardia 8: 215-232, 1934.

iMacLeod, J. Ec. Ent. 26: 62-67, 1933.

iMetzger & Grant, USDA TB 299, 1932, 22p.

bMumford, Science n.s. 73: 49-50, 1931.

Painter, Kans. Bien. R. 6: 98-100, '32.

Parker, USDA YB f. 1931: 316-317.

Parker & Painter, Internat. Cong. Genetics 6, P. 2: 150-152, 1932.

Insects—Resistant sugar cane

iKuntz, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 41 [P. Pt. 2]: 5, '32.

Insects—Resistant vegetables

Mahoney, Ohio Veg. Grow. Assoc. P. 19: 57-59, 1934.

Insects—Resistant wheat

Salmon, USDA YB f. 1933: 140-150.

Dak. Farm. 54: 133, 1934.

Sci. News Letter 25: 168, 1934.

Insects—Resistant wood

iBrown, Engin. News-Rec. 111: 223-224, 1933.

Insects—Respiration

Bodine & Boell, Iowa Acad. Sci. P. 41:
313-314, 1934.

biDuncan, Cal. St. Teach. Coll. Insects:
87-94, 1933.

Insects—Saskatchewan

King et al, Ent. Soc. Ont. R. 60: 26-29,
1930; R. 61: 23-27, 1931; R. 62: 27-
28, 1932.

Insects—Senses

bBarnes, Ann. Ent. Soc. Amer. 24: 824-
826, 1931.

biHilton, J. Ent. & Zool. 24: 64-66, 1932;
25: 61-67, 1933.

biMcIndoo, Smithsonian. Misc. Coll. 82(18),
1931, 70p.

biMcIndoo, J. Morph. 56: 445-475, '34.
Marlatt, USDA Ent. R. f. 1932: 37.

iMetcalf & Flint, Fund. of Ins. Life:
109-111, 1932.

[Minnich], Lit. Dig. 113: 17, Apr. 2, '32.

biValentine, J. Exp. Zool. 58: 165-227,
1931.

iWilcox, Pop. Mech. 53: 626-629, 1930.

Insects—Setae

iFerris, Can. Ent. 66: 145-150, 1934.

Insects—Sex determination

Ruckes, J. N.Y. Ent. Soc. 40: 275-277,
1932.

Insects—Shipping

biHolloway, J. Ec. Ent. 26: 280-282, '33.

Insects—Sight

iLutz & Burlingame, Sci. News Letter
22: 417, 1932.

Insects—Sonification

Champlain, Nature Mag. 18: 92-96,
1931.

iDitmars, Better Homes & Gardens
12(12): 13-15, 40-41, 1934.

bFulton, Ann. Ent. Soc. Amer. 26: 368-
376, 1933.

iJoya, Mid-Pac. Mag. 46: 223-225, '33.

iLutz, Sci. Amer. 143: 270-273, 1930.

Lutz, BAMNH 50: 333-372, 1934.

biPickwell, Cal. St. Teach. Coll. Insects:
122-134, 1933.

iPowers, World of Insects 83-90: 1931.

Sweet, Catholic World 131: 715-717,
1930.

iWilcox, Farm & Ranch 49(35): 3, 13,
1930.

iCornell Rur. School Leaf. 27(3): 28-30,
1934.

Insects—Southern Alberta

Seamans, Ent. Soc. Ont. R. 60: 31,
1930; R. 61: 28-29, 1931; R. 62: 30-
31, 1932.

Insects—Spread—Autos

Hutchison, Cal. Agr. Mo. B. 19: 545-
546, 1930.

Insects—Spread—Freight cars

Midwest Fruitman 3(10): 5, 1930.

Insects—Stings

Bromley, Bklyn. Ent. Soc. B. 28: 192,
1933.

Essig, Science n.s. 75: 242-243, 1932.

Essig & Michelbacher, Science n.s. 76:
407-408, 1932.

Insects—Stomach

iSnodgrass, Smithsonian. R. f. 1933: 363-
387.

Insects—Structures—Antiquity

Cockerell & Leveque, Amer. Nat. 65:
351-359, 1931.

Insects—Surface area

Simanton, Ann. Ent. Soc. Amer. 26:
247-254, 1933.

Insects—Surveys, see also Insects—Insect pest surveys

Crosby, N.Y. St. Hort. Soc. P. 76: 19-
22, 1931.

Hyslop, USDA Off. Rec. 11: 199, 1932.

Ryan, Los Angeles Co. Comm. Agr.
R. f. 1931: 16-23.

Insects—Surveys—Arizona

O'Dell, Ariz. Com. Agr. & Hort. R.
19/20: 28-31, 1929.

Insects—Surveys—California

Moulton, Cal. Agr. Mo. B. 20: 754, '32.

Ryan, Cal. Agr. Mo. B. 20: 409-410,
1931.

Insects—Surveys—Canada

Twinn, Que. Soc. Prot. Pl. R. 23/24:
149-168, 1932.

Insects—Surveys—Illinois

Frison, Ent. Soc. Ont. R. 60: 141-146,
1930.

Insects—Surveys—Iowa

Jaques, Iowa Acad. Sci. P. 41: 305-307,
1934.

Insects—Surveys—Kansas

iSmith, J. Kans. Ent. Soc. 7: 37-51, '34.

Insects—Surveys—Massachusetts

Bourne & Whitcomb, Mass. Fr. Grow.

Assoc. R. 39: 172-174, 1933.

Insects—Surveys—Montana

iCooley, Mont. B. 238: 14, 1930.

Insects—Surveys—North Carolina

Leiby, J. Ec. Ent. 27: 735-739, 1934.

Insects—Surveys—Oklahoma

Blackwell, Okla. R. f. 1926/1930: 270-271.

Insects—Surveys—Puerto Rico

Leonard, Facts about Sugar 27: 539-540, 1932.

Leonard, P.R. Dept. Agr. J. 16: 121-144, 1932.

Insects—Surveys—South Carolina

Sherman, S.C. R. 44: 73-74, 1931; R. 46: 87-90, 1933.

Insects—Susceptibility of shade trees

Middleton, Nat. Shade Tree Conf. P. 7: 46-56, 1931.

Insects—Synchronization of life histories

Woodworth, Pan-Pac. Ent. 6: 189-191, 1930.

Insects—Taxonomy

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 16-17, 1932.

Hayes, Ill. St. Acad. Sci. Trans. 24: 181-202, 1931.

Marlatt, USDA Ent. R. f. 1930: 71-76; R. f. 1931: 83-84; R. f. 1932: 35; R. f. 1933: 45-46.

Mickel, Ann. Ent. Soc. Amer. 23: 507-512, 1930.

Sumner, Amer. Nat. 68: 137-149, 1934.

Insects—Thermal death point

Mellanby, J. Expt. Biol. 9(2): 222-231, 1932.

Insects—Timagami, Canada

Brown, Can. Ent. 66: 206-211, 220-231, 242-252, 261-267, 1934.

Insects—Toxicology

Richardson, Iowa Agr. Res. R. f. 1931: 62.

Insects—Transportation

Smith, Ann. Ent. Soc. Amer. 26: 515-516, 1933.

Insects—Traps, see Traps for insects**Insects—Tree defoliation**

Graham, J. For. 29: 199-206, 1931.

Insects—Tropical—Adaptability to colder climates

Lyne, Cal. Agr. Mo. B. 23: 267-268, 1934.

Insects—Tumors

Stark, Sci. News Letter 22: 148, 1932.

Insects—Types

Aldrich, Ent. News 45: 8, 1934.

Blatchley, Ent. News 41: 17-20, 1930.

Cresson, Ent. News 45: 122-126, 216-217, 1934.

Hebard, Ent. News 41: 183-185, 1930.

bMickel, Psyche 37: 118-131, 1930.

Staig, Ent. News 42: 263-267, 1931.

Torre-Bueno, Psyche 37: 80-82, 1930.

Van Duzee, Pan-Pac. Ent. 8: 101, 1932.

Insects—Urticating

Matheson, Med. Ent.: 444-447, 1932.

Insects—Utah

Knowlton & Cutler, Utah Acad. Sci. P. 9: 111-112, 1932.

Insects—Value

biPickwell, Cal. St. Teach. Coll. Insects: 230-235, 1933.

Insects—Why they have persisted

Howard, Insect Menace: 18-101, 1931.

Insects—Winter, see Insects—Hibernation**Insects—Wisconsin**

Chambers, Wis. Cranb. Grow. Assoc. R. 46: 14-16, 1933; R. 47: 11-13, '34.

Insects—Wood as food of

Snyder, So. Lumberman 145: 27, 1932.

Insects and California ground squirrel

bDavis & Sloop, Bklyn. Ent. Soc. B. 29: 79-83, 1934.

Insects and disease, see also Name of disease [e.g. Malaria; Yellow fever, etc.]

Bishopp, Sci. Mo. 33: 443-445, 1931.

Bocker, Extermin. Log 2(4): 16, 1934.

Bruce, Can. Vet. Dir. Gen. R. f. 1931: 71-73.

Cameron, Internat. Assoc. Game, Fish & Conserv. Comm. Conven. 28: 79-83, 1934.

bCecil, Text-book of Med. ed. 3: 507-515, 1934.

Dampf, Science n.s. 77: 21, 1933.

Faurot, Mo. St. Fr. Bien. R. f. 1929-30: [3].

Faust, Ann. Ent. Soc. Amer. 25: 629-630, 1932.

- biFolsom, Entomology, ed. 4 rev.: 304-343 [c1934].
- bGlaser, Studies from Rockefeller Inst. f. Med. Res. Reprints 73: 465-518, 1931.
- Hanson, Fla. Med. Assoc. J. 16: 399-401, 1930.
- Hermes, Ann. Ent. Soc. Amer. 25: 623-628, 1932.
- Hinman, Ann. Ent. Soc. Amer. 25: 621-623, 1932.
- iHoffman, Anal. Univ. Nac. Mex. Inst. de Biol. 1: 135-164, 1930.
- Howard, Hist. of Appl'd Ent.: 132-134, 1930.
- Howard, Sci. Mo. 31: 17-18, 1930.
- Howard, Insect Menace: 198-200, '31.
- Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 215-216, 1930.
- biO'Roke, Cal. Univ. Pub. Zool. 36: 11-19, 1930.
- Pierstorff & Parks, Ohio Ext. Serv. Pl. Dis. & Ins. Notes 1(11): 1-4, 1930.
- Rawson, Sci. Mo. 39: 497-510, 1934.
- bRead, Amer. Rev. Tubercl. 28: 267-272, 1933.
- Rice, Ind. St. Bd. Health Mo. B. 34: 52-53, 1931.
- bRiley & Johannsen, Med. Ent. 1932, 476p.
- Robinson, Flor. Exch. 78(8): 58-59, '31.
- Sanders, Entermin. Log 2(1): 8, 16, '34.
- bSchwardt, Ann. Ent. Soc. Amer. 25: 603-613, 1932.
- iSokoloff, Mex. Univ. Inst. Biol. Anal. 2: 167-169, 1931.
- Symons, Md. Univ. & St. Bd. Agr. Bien. R. f. 1928-1930: 111-112.
- bToomey, Ann. Int. Med. 5: 585-600, 1931.
- Insects and disease—Acariasis (Monkey)**
Schlotthauer & Essex, J. Amer. Vet. Med. Assoc. n.s. 29: 243-248, 1930.
- Insects and disease—Anaplasmosis**
bAlcorn, Vet. Med. 25: 234-237, 1933.
Mohler, USDA BAI R. f. 1931: 74-75.
Rees, Science n.s. 75: 318-320, 1932.
- biRees, USDA TB 418, 1934, 18p.
- iSanborn, Okla. R. f. 1926/1930: 250-254.
- Sanborn & Moe, Okla. R. f. 1932/1934: 275-279.
- biSanborn, Stiles & Moe, Okla. B. 204, 1932, 16p.; Okla. R. f. 1930/1932: 248-250.
- Van Volkenberg, P.R. Mayaguez R. f. 1933: 21-22, 1934.
- Insects and disease—Anemia in foxes**
Law & Kennedy, North Amer. Vet. 15(12): 36-38, 1934.
- Insects and disease—Anthrax**
Cecil, Text-book of Med. ed. 3: 510, 1934.
- Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.
- Insects and disease—Asthma**
biMacDermot, Can. Med. Assoc. J. 31: 408-410, 1934.
- Insects and disease—Asthma & hay fever**
iParlato, J. Amer. Med. Assoc. 102: 910-913, 1934.
- Insects and disease—Avian coccidia**
Delaplane & Stuart, Poultry Sci. 12: 390-391, 1933.
- Insects and disease—Buffalo plague**
Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.
- Insects and disease—Camel itch**
Ormsby, Pract. Treat. Dis. Skin, ed. 4: 1069, 1934.
- Insects and disease—Cattle fever**
iHall, North Amer. Vet. 15(4): 51-60, 1934.
- Insects and disease—Chagas' disease**
bClark & Dunn, United Fr. Co. Med. Dept. R. 20: 141-143, 1931.
- Insects and disease—Choriopic mange**
iCameron, Can. Dept. Agr. B. 152: 22, 1931.
- Insects and disease—Coastal erysipelas**
Dampf, Sci. News Letter 20: 24, 1931.
- Insects and disease—Creeping eruption**
biDove, Amer. J. Hyg. 15: 665-711, 1932.
iOrmsby, Pract. Treat. Dis. Skin, ed. 4: 1079-1083, 1934.
- Insects and disease—Cutaneous myiasis**
biWalker, Can. Pub. Health J. 22: 504-507, 1931.
- Insects and disease—Dengue**
Simmons, Amer. J. Trop. Med. 11: 82, 1931.

Insects and disease—Dermatitis

iOrmsby, Pract. Treat. Dis. Skin, ed. 4:
1057-1058, 1934.

Insects and disease—Encephalitis

J. Wash. Acad. Sci. 23: 488, 1933.

Sci. News Letter 24: 244, 1933.

Insects and disease—Endamoeba histolytica

biFrey & Meleney, Amer. J. Hyg. 16:
729-749, 1932.

Insects and disease—Equine encephalomyelitis

bBrueckner et al, Md. B. 369: 137-146,
1934.

biHermes, Wheeler & Herms, J. Ec. Ent.
27: 987-998, 1934.

Knowlton, Utah B. 250: 47, 1934.

bKnowlton & Rowe, Utah Acad. Sci.
P. 11: 267-270, 1934.

Lytle, Oreg. Dept. Agr. B. 36: 26-27,
1934.

Merrill & Ten Broeck, Soc. Exp. Biol.
& Med. P. 32: 421-425, 1934.

bShahan & Giltner, J. Amer. Vet. Med.
Assoc. 84: 928-934, 1934.

iSimmons et al, Science n.s. 78: 243-246,
1933.

Insects and disease—Equine strongyloidosis

bWright et al, J. Agr. Res. 43: 287-302,
1931.

Insects and disease—Filariasis

bStrong & Shattuck, Harv. Univ. Inst.
Trop. Biol. Contrib. 5: 231-240, '30.

Insects and disease—Focal infections

Ormsby, Pract. Treat. Dis. Skin, ed. 4,
rev.: 71, 1934.

Insects and disease—Fowl cholera

Skidmore, Cornell Vet. 22: 281-285,
1932.

Insects and disease—Fowl pox

Beach, Vet. Med. 26: 47, 1931.

iMatheson, Brunett & Brody, Poultry
Sci. 10: 211-223, 1931.

Insects and disease—Hay fever

iParlato, J. Amer. Med. Assoc. 102:
910-913, 1934.

Spotts, Extermin. Log 2(10): 22, 1934.

Insects and disease—Hereditary transmission

bHinman, Amer. J. Trop. Med. 13: 415-
423, 1933.

Insects and disease—Leprosy

bVedder, P.R. J. Pub. Health & Trop.
Med. 6: 112-115, 1930.

Insects and disease—Mange

Bryan, North Amer. Vet. 12(7): 46-47,
1931.

Insects and disease—Mexican typhus (Tarbardillo)

iStafford, Sci. News Letter 26: 26-27,
1934.

Insects and disease—Moniezia expansa

Daubney, J. Parasit. 19: 6-8, 1932.

Insects and disease—Mountain fever

bToomey, Ann. Internal. Med. 5: 601-
612, 1931.

Insects and disease—Myiasis

Cooper, U.S. Nav. Med. B. 28: 112-
114, 1930.

Gertson et al, J. Amer. Med. Assoc.
100: 487-488, 1933.

Hermes et al, Ann. Internal. Med. 6:
941-945, 1933.

iKingscote, Ont. Vet. Coll. R. f. 1930:
38-39, 1931.

Kingscote, Ent. Soc. Ont. R. 62: 91-93,
1932.

biMatheson, Med. Ent.: 375-409, 1932.

bOrmsby, Pract. Treat. Dis. Skin, ed. 4:
1078-1079, 1934.

Riley & Johannsen, Med. Ent.: 370-
386, 1932.

bRoberts, Ent. News 44: 157-159, 1933.
J. Ec. Ent. 25: 946, 1932.

Ont. Vet. Coll. R. f. 1930: 39, 1931.

Insects and disease—Onchocerciasis

Dampf, Science n.s. 77: 20-21, 1933.

iHoffman, Anal. Univ. Nac. Mex. Inst.
de Biol. 1: 59-62, 293-306, 1930.

Strong, N.Eng. J. Med. 204: 916-920,
1931.

Insects and disease—Osteomyelitis, see Maggot therapy**Insects and disease—Paresis**

Harvey, Ind. St. Bd. Health Mo. B.
34: 49-50, 1931.

Mayne, Sci. Amer. 147: 312-313, 1932.

Science n.s. 75(1995 sup.): 8, 1932.

Sci. News Letter 19: 394, 1931; 21: 103,
325, 410, 1932; 23: 307, 1933.

Insects and disease—Pellagra

Ormsby, Pract. Treat. Dis. Skin, ed. 4,
rev.: 421, 1934.

Insects and disease—Plague

Eskey, U.S. Pub. Health R. 45: 2162-2187, 1930.

Insects and disease—Psoroptic mange

iCameron, Can. Dept. Agr. B. 152: 20-21, 1931.

Insects and disease—Relapsing fever

bBruce, J. Kans. Ent. Soc. 7: 87-89, '34.

bDunn & Clark, Amer. J. Trop. Med. 13: 201-209, 1933.

Francis, J. Amer. Med. Assoc. 99: 70-71, 1932.

Hanson, Fla. Med. Assoc. J. 16: 400-401, 1930.

bHearle, Can. Med. Assoc. J. 30: 494-497, 1934.

bHoffman, Assoc. Med. P.R. B. 24: 659, 1932.

Sci. News Letter 19: 109-110, 1931.

Insects and disease—Sarcoptic mange

iCameron, Can. Dept. Agr. B. 152: 18-19, 1931.

Insects and disease—Scabies

iHall, North Amer. Vet. 15(5): 58-61, 1934.

biOrmsby, Pract. Treat. Dis. Skin, ed. 4: 1061-1069, 1934.

Insects and disease—Surra

Krijgsman, Pac. Sci. Cong. 5, P. 5: 3357-3358, 1934.

Insects and disease—Texas fever

Rawson, Sci. Mo. 39: 507, 1934.

Vet. Med. 28: 317, 1933.

Insects and disease—Tick bite fever

biShipley, Johns Hopkins Hosp. B. 50: 83-101, 1932.

Insects and disease—Tick paralysis, cattle

Hearle, B.C. Ent. Soc. P. 30: 11-16, 1933.

Insects and disease—Trypanosomiasis

Cecil, Text-book of Med. ed. 3: 511, 1934.

bMartin, J. Amer. Vet. Med. Assoc. 76: 221-238, 1930.

Wood, Amer. J. Trop. Med. 14: 497-516, 1934.

Insects and disease—Tsutsugamushi fever

Cecil, Text-book of Med. ed. 3: 511, '34.

Rawson, Sci. Mo. 39: 510, 1934.

Insects and disease—Tularemia

Cheney, Kans. Agr. Student 14: 56, 58, 1934.

bGreen, Amer. J. Hyg. 14: 600-613, '31.
Philip et al, Sci. News Letter 22: 303, 1932.

iStafford, Sci. News Letter 26: 42-44, 1934.

Volkmar, Amer. Fur Breeder 5(4): 11-13, 5(5): 26-27, 1932.

Insects and disease—Typhoid fever

Cecil, Text-book of Med. ed. 3: 508, 1934.

biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 6-7, 1931.

Insects and disease—Vesicular dermatitis

Bequaert, Bklyn. Ent. Soc. B. 27: 107-112, 1932.

Insects and disease—Yaws

biRockefeller Found. Internat. Health Bd. R. f. 1934: 83-84.

U.S. Nav. Med. B. 28: 795-796, 1930.

Insects and drought

Hyslop, J. Wash. Acad. Sci. 22: 189, 1932.

Insects and farm woodlots

Bentley, Tenn. Bien. R. f. 1929/1930: 105-107, 1931.

Insects and fire injured trees

Salman, J. For. 32: 1016-1017, 1934.

Insects and frogs

iCochran, Nat. Geog. Mag. 61: 630-631, 1932.

Insects and fungi

biDowling, Ann. Bot. 45: 621-637, 1931.

Insects and human welfare

Faust, Sci. Month. 33: 228-234, 1931.

Marlatt, USDA Ent. R. f. 1932: 30.

iParks & Jones, Ohio Ext. B. 97: 28-33, 1930.

Insects and humidity, see Humidity and insects**Insects and Indians**

iEssig, Sci. Month. 38: 181-186, 1934.

Insects and plant diseases

Agete, Rev. de Agr. Cuba 14(6): 14-15, 1932.

Amargos, Rev. de Agr. Cuba 15(15): 69, 1934.

iBeattie, USDA YB f. 1934: 189-190.

iBingham, Tex. Cit. 8(12): 10, 1932.

Blauvelt, Amer. Agr. 126(1): 9, 1930.

Calderon, Rev. de Agr. Cuba 14(4): 104, 1932.

Insects and plant diseases *Cont'd*

- Chambers, Wis. Dept. Agr. B. 115: 35-66, 1931.
- Chambers & Thompson, Wis. Dept. Agr. B. 123, 1931, 58p.
- Eisenhower & Chew, USDA Misc. Pub. 88: 17, 1930.
- Elze, Phytopath. 21: 675-686, 1931.
- Fite, N.Mex. B. 209: 34-39, 1933.
- Fromme, W.Va. B. 354: 6-8, 1932.
- Heald, Man. of Pl. Dis. ed. 2: 252-253, 309, 1933.
- iHodgson, Cal. Cit. 17: 379-380, 1932.
- Hooker, USDA OES R. on Exp. Sta. f. 1931: 50-51, 1932.
- Huckett, Amer. Potato J. 7: 27-30, '30.
- bKnowlton, Utah Acad. Sci. P. 11: 261-265, 1934.
- Lockwood, Cal. Cult. 74: 613, 1930.
- McLaughlin, W.Va. St. Dept. Agr. Bien. R. 11: 36-40, 1934.
- Martin, Assoc. Hawaiian Sugar Tech. R. 10: 3-11, 1931.
- Melcher et al, Kans. Bien. R. 6: 85-87, 1932.
- Metcalf & Flint, Fund. of Ins. Life: 15-18, 1932.
- Oelschig, Ga. St. Hort. Soc. 54: 64-65, 1930.
- Peck, Amer. Dahlia Soc. B. 56: 32, '31.
- Pierstorff & Parks, Ohio Ext. Ser. Pl. Dis. & Ins. Notes 1(12): 1-2, 1930; 2(11), 1931, 4p.
- biPoos & Wheeler, J. Ec. Ent. 27: 58-69, 1934.
- biSeverin, Hilgardia 7: 179, 1932.
- iSmith & Goldsmith, Pac. Rur. Press 128: 390, 1934.
- Strong, USDA Ent. R. f. 1934: 12-16.
- Weldon, Pac. Rur. Press 120: 30, 1930.
- bWymore, J. Ec. Ent. 27: 888-889, 1934.
- Insects and plant diseases—Alfalfa yellows**
- [Christensen], Wis. B. 428: 108-109, 1934.
- Marlatt, USDA Ent. R. f. 1930: 22-23.
- Poos & Westover, Science n.s. 79: 319, 1934.
- Searls, J. Ec. Ent. 27: 80-88, 1934.
- Insects and plant diseases—Apple canker**
- Cooley, Northw. Fr. Grow. 4(2): 6, 12-13, 1932.
- Dennys, B.C. Ent. Soc. P. 30: 8-10, '33.
- iGussow, Can. Dept. Agr. Pam. 116 n.s., 1930, 7p.
- biYothers, Wash. St. Hort. Soc. P. 28: 69-75, 1932.
- biYothers, Northw. Fr. Grow. 5(7): 5, 11, 1933.
- Insects and plant diseases—Aster yellows**
- biDobroscky, Boyce Thompson Inst. Contrib. 2: 343-349, 1930.
- Kunkel, Boyce Thompson Inst. Contrib. 3(1): 85-123, 1931.
- biSeverin, Hilgardia 8: 339-361, 1934.
- biSeverin & Haasis, Hilgardia 8: 329-335, 1934.
- Tilford, Ohio B. 511: 17, 1932.
- iWhite, N.J. Agr. 12(6): 10, 1930.
- Insects and plant diseases—Bacterial disease of bean**
- bBuchanan, J. Ec. Ent. 25: 49-53, 1932.
- Insects and plant diseases—Bacterial rot**
- Maine B. 357: 236-237, 1930.
- Insects and plant diseases—Bacterial wilt**
- Thomas, Ohio Veg. Assoc. P. 19: 98-99, 1934.
- Insects and plant diseases—Bean viruses**
- Pierce, Phytopath. 24: 104, 1934.
- Insects and plant diseases—Beech bark disease**
- Beattie, J. Ec. Ent. 26: 624, 1933.
- biEhrlich, Can. J. Res. 10(Sp. no. June): 593-692, 1934.
- Felt, J. Ec. Ent. 26: 510, 1933.
- J. For. 31: 847-848, 1933.
- Insects and plant diseases—Black pit of pecan**
- biAdair, USDA C. 234, 1932, 15p.
- Cal. Cult. 79: 351, 1932.
- Insects and plant diseases—Blackleg of potato**
- iLeach, Minn. TB 76: 5, 1931.
- bLeach, Phytopath. 21: 387-406, 1931.
- MacLeod, Can. Exp. Farms, Div. Bot. R. f. 1930: 161.
- Maine B. 357: 236, 1930.
- Insects and plant diseases—Blue stain**
- biLeach, Orr & Christensen, J. Agr. Res. 49: 315-341, 1934.
- biRumbold, J. Agr. Res. 43: 863-871, '31.
- Insects and plant diseases—Bunchy-top**
- biOcfemia, Amer. J. Bot. 17: 1-18, 1930.

- biKunkel, Que. Soc. Prot. Pl. R. 25/26: 29, 1934.
- Insects and plant diseases—Carrion's disease**
bHoffman, Assoc. Med. P.R. B. 24: 656-657, 1932.
- Insects and plant diseases—Cedar rust**
Wiley, Va. St. Hort. Soc. P. 38: 58-63, 1934.
- Insects and plant diseases—Citrus scab fungus**
biJenkins, Phytopath. 20: 345-351, 1930.
- Insects and plant diseases—Cotton wilt**
Taubenhaus & Christenson, Assoc. South. Agr. Workers P. 35: 344-345, 1934.
- Insects and plant diseases—Cranberry false blossom**
Beckwith, N.J. R. 51: 172, 1930.
iBeckwith, N.J. C. 275: 1933, 4p.
Beckwith, Amer. Cranb. Assoc. P. 64: 9-10, 1934.
- biDobrosky, Boyce Thompson Inst. Contrib. 3: 59-83, 1931.
- Gilliatt, N.S. Fr. Grow. Assoc. R. 71: 52-55, 1934.
- bGoldsworthy, Amer. Cranb. Grow. Assoc. R. 46: 39-49, 1933.
- biKunkel, Que. Soc. Prot. Pl. R. 25/26: 30, 1934.
- Scammell, Wis. St. Cranb. Assoc. R. 44: 8-13, 1930.
- Stevens, USDA C. 147: 1, 1931.
- Insects and plant diseases—Crimp, strawberry**
Brooks, Fla. B. 235: 11, 1931.
- Insects and plant diseases—Crinkle, strawberry**
biVaughn, Phytopath. 23: 738-740, 1933.
Zeller, Oreg. B. 319: 9-11, 1933.
- Insects and plant diseases—Crown gall**
iRiker & Banfield, Wis. B. 420: 23-24, 1931.
- Waite, Amer. Assoc. Nurserym. Conv. 59: 111-112, 1934.
- Insects and plant diseases—Curly top**
Annand et al, USDA C. 244: 1932, 24p.
iCook, USDA YB f. 1934: 332-334.
- Dana, Oreg. St. Hort. Soc. R. 26: 95-96, 1934.
- Severin, Hilgardia 6: 253-276, 1931; 8: 349-352, 1934.
- Insects and plant diseases—Dutch elm disease, see Dutch elm disease**
- Insects and plant diseases—Endosepsis**
iSimmons, Reed & McGregor, USDA C. 157: 46-48, 1931.
- Insects and plant diseases—Erigeron yellows**
McClintock, Phytopath. 21: 377-378, 1931.
- Insects and plant diseases—Fiji disease of sugar cane**
biOcfemia, Amer. J. Bot. 21(3): 113-120, 1934.
- Insects and plant diseases—Fireblight**
bMachacek, Que. Soc. Prot. Pl. R. 22: 55-67, 1931.
- biPierstorff, N.Y. (C.) Mem. 136: 37, '31.
Pierstorff, Midwest Fruitman 7(11): 3, 7, 1934.
- Pierstorff, Ohio Hort. Soc. P. 67: 47-50, 1934.
- bPierstorff & Lamb, Phytopath. 24: 1347-1357, 1934.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins. notes 1(7): 1-4, 1930.
- Rosen, Missouri St. Hort. Soc. P. f. 1930/1932: 67-77.
- biRosen, Ark. B. 283, 1933, 102p.
- iRosen & Root, Amer. Fr. Grow. Mag. 51(6): 10-11, 17, 1931.
- Thomas, N.Y. St. Hort. Soc. P. 76: 98-102, 1931.
- iThomas, Ohio Bi-Mo. B. 159: 195-197, 1932.
- Insects and plant diseases—Fusarium vasinfectum**
Taubenhaus & Christenson, Assoc. South. Agr. Workers P. 35: 344-345, 1934.
- Insects and plant diseases—Gloeosporium perennans**
Cooley, Northw. Fr. Grow. 4(2): 6, 12-13, 1932.
- Insects and plant diseases—Gout diseases**
biBalch, Ent. Soc. Ont. R. 62: 61-65, '32.
- Insects and plant diseases—"Gout disease" of balsam fir**
biBalch, For. Chron. 8: 46-51, 1932.
- Insects and plant diseases—Green spot**
Carter, Phytopath. 24: 424-426, 1934.
- Insects and plant diseases—June yellows**
Plakidas, Phytopath. 22: 22, 1932.

- Insects and plant diseases—Leaf scald disease**
 Pemberton, Hawaiian Sugar Pl. Assoc. Exp. Sta. R. f. 1934: 24.
- Insects and plant diseases—Mealy-bug wilt**
 Carter, *Phytopath.* 24: 424-426, 1934.
- Insects and plant diseases—Mosaic disease**
 Gregory, Ind. Ext. Leaf. 180: 4-5, '33.
 Koch, *Science* n.s. 73: 615, 1931.
 Rankin, N.Y. (Gen.) TB 175: 13, 1931.
 iTilford, Ohio B. 511: 75, 1932.
- Insects and plant diseases—Mosaic of alfalfa**
 Weimer, *Phytopath.* 24: 239-247, 1934.
- Insects and plant diseases—Mosaic of banana**
 biKunkel, Que. Soc. Prot. Pl. R. 25/26: 29, 1934.
- Insects and plant diseases—Mosaic of bean**
 Nelson, Mich. TB 118: 14-15, 1932.
- Insects and plant diseases—Mosaic of beets**
 Jones, Wash. B. 250, 1931, 16p.
- Insects and plant diseases—Mosaic of celery**
 Doolittle & Wellman, *Phytopath.* 24: 48-61, 1934.
 Wellman, *Phytopath.* 22: 30, 1932.
- Insects and plant diseases—Mosaic of cucumber**
 bClayton, N.Y. (Gen.) B. 590: 8, 1931.
 Doolittle, Veg. Grow. Assoc. Amer. R. f. 1930: 116-117.
 iHoggan, *Phytopath.* 20: 103-105, 1930.
 biHoggan, J. Agr. Res. 47: 689-704, 1933.
- Insects and plant diseases—Mosaic of dahlia**
 biKunkel, Que. Soc. Prot. Pl. R. 25/26: 29, 1934.
- Insects and plant diseases—Mosaic of potatoes**
 Simpson, Maine B. 377: 351-353, 1934.
- Insects and plant diseases—Mosaic of raspberry**
 bBennett, Mich. TB 125: 23-24, 1932.
 Knowlton & Orton, W.Va. C. 61: 20, '33.
 Slate & Rankin, N.Y. (Gen.) B. 625: 32-33, 49-52, 1933; C. 153: 18-21, 1934.
- Insects and plant diseases—Mosaic of sugar cane**
 iCook, La Hacienda 28: 164, 1933.
 iLoftin & Christenson, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 115 [P. Pt. 2]: 12-15, 1932.
 Priode, Assoc. Tecn. Azucar. Cuba P. 5: 138-139, 1931.
 biSein, P.R. Dept. Agr. J. 14: 49-68, '30.
 Sein, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 84: [P. Pt. 2], 1932, 6p.
 Wolcott, Ec. Ent. of West Indies: 228-234, 1933.
- Insects and plant diseases—Mosaic of tobacco**
 Hoggan, *Phytopath.* 21: 211, 1931.
 biHoggan, J. Agr. Res. 49: 1135-1142, 1934.
 Lehman, N.C. R. 53: 97-100, 1930.
 Rodriguez, Rev. Agr. P.R. 24: 150, 1976, 1930.
 iTurcot, Que. Min. de l'Agr. B. 122: 57-59, 1933.
- Insects and plant diseases—Mosaic of tomato**
 biCleveland, Ind. B. 351: 14-24, 1931.
- Insects and plant diseases—Mosaic of watermelon**
 biWalker, *Phytopath.* 23: 741-744, 1933.
- Insects and plant diseases—Peach canker**
 biWillison, Sci. Agr. 15: 35-47, 1933.
- Insects and plant diseases—Peach yellows**
 biKunkel, Boyce Thompson Inst. Contrib. 5: 19-28, 1933.
 biKunkel, Que. Soc. Prot. Pl. R. 25/26: 30, 1934.
 Manns, Del. B. 179: 46, 1932.
- Insects and plant diseases—Pear blight**
 Mackie, Cal. Agr. Mo. B. 19: 842, '31.
 Norton, Pac. Rur. Press 122: 128, 1931.
- Insects and plant diseases—Phony disease of peach**
 Anderson, Ill. St. Hort. Soc. Trans. 66: 214-217, 1932.
 Bryant, Ill. St. Hort. Soc. Trans. 66: 217-225, 1932.
 Glenn, Ill. Dept. Agr. R. 15: 60-61, '32.
 iHutchison, J. Ec. Ent. 23: 555-562, '30.
 iHutchison, Ga. St. Ent. B. 78, 1933, 55p.
 Strong, USDA PQCA R. f. 1930: 47-

- 48; R. f. 1931: 48-49; R. f. 1932: 31-32; R. f. 1933: 31-32.
- iTurner, J. Ec. Ent. 26: 659-667, 1933.
- Insects and plant diseases—Phytophthora melophthora**
- bAllen & Riker, Phytopath. 22: 557-571, 1932.
- Insects and plant diseases—Pineapple wilt**
- biCarter, Phytopath. 22: 996-997, 1932; 23: 207-242, 1933.
- iIllingworth, J. Ec. Ent. 24: 877-889, 1931.
- Insects and plant diseases—Pineapple yellow-spot**
- biB.M.L., Pineapple News 4(3): 43-51, 1930.
- biCarter, J. Ec. Ent. 25: 1031-1035, 1932.
- biCarter, Phytopath. 22: 996, 1932; 23: 243-259, 1933.
- biLinford, Pineapple News 4: 43-51, '30.
- biLinford, Pineapple Quar. 1: 53-61, '31.
- Linford, Science n.s. 73: 263, 1931.
- Linford, Phytopath. 22: 301-324, 1932.
- Olsen, Hawaiian Ent. Soc. P. 8: 26, '32.
- biPaxton, Pineapple News, 4: 69-75, '30.
- iPratt, Pineapple News 4: 65-68, 1930.
- biSakimura, J. Ec. Ent. 25: 885-891, '32.
- Insects and plant diseases—Potato blight**
- Clayton, Amer. Potato J. 8: 177-179, 1931.
- Insects and plant diseases—Potato leaf roll**
- biCleveland, Ind. B. 351: 1-13, 1931.
- bElze, Phytopath. 21: 675-686, 1931.
- Howitt, Farm. Advoc. 65: 779-780, '30.
- Schultz et al, Maine B. 361: 196-197, 1931.
- iStewart & Glasgow, N.Y. (Gen.) TB 171: 3-21, 1930.
- Stewart & Glasgow, Phytopath. 21: 103-104, 1931.
- Insects and plant diseases—Potato scab**
- Bushnell, Amer. Potato J. 11: 118, '34.
- MacLeod, N.Y. (C.) R. 46: 109-110, 1933.
- biSchaal, J. Agr. Res. 40: 251-258, 1934.
- Insects and plant diseases—Potato virus disease**
- Simpson, Maine B. 363: 270, 1932.
- Insects and plant diseases—Potato yellow dwarf**
- bBlack, Amer. Potato J. 11: 148-152, 1934.
- Insects and plant diseases—Psyllid yellows**
- Cardon, Utah B. 250: 46, 1934.
- biDaniels, Col. B. 410, 1934, 18p.
- Eyer & Crawford, J. Ec. Ent. 26: 846-850, 1933.
- List, Col. R. 45: 44-45, 1932.
- List & Daniels, Col.-Wyo. Acad. Sci. J. 1(6): 74-75, 1934.
- List & Daniels, Science n.s. 79: 79, '34.
- Metzger, Col. B. 412: 82-87, 1934.
- Richards, Phytopath. 21: 103, 1931.
- Sandsten, Col. R. 46: 14, 1933.
- Insects and plant diseases—Red berry disease**
- iHanson, W. Wash. B. 18-W: 9-11, '30.
- Insects and plant diseases—Root disease**
- Sein, Sugar B. 12(2): 3, 1933.
- bWolcott, Ec. Ent. of West Indies: 147-148, 1933.
- Insects and plant diseases—Root-knot**
- Watson, Fla. Grow. 39(11): 24, 1931.
- Insects and plant diseases—Rugose mosaic**
- Young & Morris, Mont. B. 231: 15, '30.
- Insects and plant diseases—Smut and mold in figs.**
- Hansen & Davy, Phytopath. 22: 247-252, 1932.
- Insects and plant diseases—Souring of figs**
- biCaldis, J. Agr. Res. 40: 1042-1051, '30.
- bHoward, J. Ec. Ent. 26: 917-918, 1933.
- bSmith & Hansen, Cal. B. 506: 24, 1931.
- Insects and plant diseases—Spinach blight**
- biHoggan, Phytopath. 23: 447-474, 1933.
- Insects and plant diseases—Squash wilt**
- Richards & Robinson, Utah Acad. Sci. P. 7: 5, 1930.
- Insects and plant diseases—Strawberry dwarf**
- iStevens & Mook, J. Ec. Ent. 25: 447-454, 1932.
- Insects and plant diseases—Streak**
- Slate & Rankin, N.Y. (Gen.) B. 625: 52-53, 1933.
- Insects and plant diseases—Sugar cane diseases**
- Freise, Facts about sugar 25: 613-614, 1930.

- Insects and plant diseases—Tip burn, potatoes**
 Rosen, Ark. B. 312: 51, 1934.
- Insects and plant diseases—Tomato yellows**
 iShapovalov & Lesley, *Phytopath.* 21: 83-87, 1931.
- Insects and plant diseases—Virus diseases**
 Cook, *Sci. Month.* 36: 358-359, 1933.
 biHoggan, *Phytopath.* 21: 199-211, 1931; 23: 446-474, 1933.
 bJohnson, Ky. B. 306: 358-360, 1930.
 biKunkel, *Que. Soc. Prot. Pl. R.* 25/26: 27-31, 1934.
 Valteau, Ky. B. 327: 102-103, 1932.
- Insects and plant diseases—White rot**
 Bonde, *Maine R.* 46: 236-237, 1930.
- Insects and plant diseases—Yeast disease**
 biCaldis, *J. Agr. Res.* 40: 1042-1051, '30.
- Insects and plant diseases—Yellow dwarf**
 biDrake, Tate & Harris, *Iowa St. Coll. J. Sci.* 6: 347-354, 1932.
- Insects and plant diseases—Yellow dwarf, onion**
 Drake, *Iowa R. f.* 1932: 57-58.
 Drake et al, *Science n.s.* 75: 41-42, 341-342, 1932.
 biDrake et al, *J. Ec. Ent.* 26: 841-846, 1933.
- Insects and plant diseases—Yellow dwarf, potato**
 bBlack, *Amer. Potato J.* 11: 148-152, 1934.
 Koch, *Phytopath.* 24: 1126-1127, 1934.
- Insects and plant diseases—Yellow spot**
 biCarter, *J. Ec. Ent.* 25: 1031-1035, 1932.
- Insects and plant diseases—Yellows**
 biSeverin, *Hilgardia* 7: 163-179, 1932.
 Severin, *Hilgardia* 8: 343, 1934.
- Insects and plant life—Biological relations**
 Felt, *J. N.Y. Bot. Gard.* 32: 7-10, 1931.
- Insects and plant temperatures**
 Grimes, *Kans. Bien. R.* 7: 101, 1934.
- Insects and pollination, see also Apis mellifera and pollination**
 Ames, *Amer. Orchid Soc. B.* 1: 91, 1932.
 iBrittain, *Can. Dept. Agr. B.* 162 n.s.: 91-134, 1933.
 Brittain, *Que. Soc. Prot. Pl. R.* 25/26: 34-37, 1934.
 Gager, *Plant World*: 81-85, 1934.
- biHerman & Brittain, *Can. Dept. Agr. B.* 162, n.s.: 158-198, 1933.
 Johnston, *Can. Hort. Fr. & Truck ed.* 53: 277, 1930.
- biJones & Emsweller, *Amer. Soc. Hort. Sci. P.* 31, sup.: 160-164, 1934.
- iKnowlton, *W.Va. C.* 62, 1933, 12p.
- Marlatt, *USDA Ent. R. f.* 1931: 77.
- Murneek, *Kans. St. Hort. Soc. Bien. R.* 40: 77-81, 1930.
- Murneek, *Neb. St. Hort. Soc. R. f.* 1930: 479-481.
- biMurneek, *Missouri Res. B.* 175, 1932, 31p.
- Parker, *Kans. St. Hort. Soc. Bien. R.* 40: 113-118, 1930.
- Phillips, *N.Y. St. Hort. Soc. P.* 77: 43-53, 1932.
- bPhillips, *J. Agr. Res.* 46: 851-862, 1933.
- iPring, *Missouri Bot. Gard. B.* 21: 97, 1933.
- Severin, *S.Dak. R. f.* 1933: 26-27; *R. f.* 1934: 40.
- Swenk, *Ecol. Soc. Amer. B.* 11(4): 15, 1930.
- Waldron, *Science n.s.* 73: 703, 1931.
- Insects and sanitation**
 Cory, *Extermin. Log* 2(6): 10-11, 14, 1934.
- Insects and soil temperatures**
 Grimes, *Kans. Bien. R.* 7: 101, 1934.
- Mail, *J. Ec. Ent.* 25: 1049-1053, 1932.
- Insects and temperature, see Temperature and insects**
- Insects and weather**
 Fromme, *W.Va. B.* 354: 37, 1932.
- biHoldaway, *Ecol. Monog.* 2: 263-304, 1932.
- bSeamans, *Pac. Sci. Cong.* 5, P. 5, 3480-3481, 1934.
- biWall, *J. Ec. Ent.* 25: 1043-1048, 1932.
- Insects as food**
 biAncona, *Mex. Univ. Nac. Inst. Biol. Anal.* 3: 149, 1932; 4: 51-69, 1933.
- iEssig, *Hist. of Ent.*: 23-41, 1931.
- iEssig, *Sci. Month.* 38: 181-186, 1934.
- Knowlton, *J. Ec. Ent.* 27: 720, 1934.
- Metcalf & Flint, *Fund. of Ins. Life*: 60, 1932.
- iThone, *Sci. News Letter* 19: 238, 1931; 22: 211, 1932.

- Wolcott, Ec. Ent. of West Indies: 369, 1933.
- Insects as inventors**
iWalling, Pop. Sci. Month. 125(1): 38-39, 96-97, 1934.
- Insects as medicine**
Metcalf & Flint, Fund. of Ins. Life: 54-55, 1932.
- Insects in art**
iWatson, Guide to Nature 24: 44, 1932.
- Insects vs. man**
Bee, Agr. Student 40: 13-14, 1933.
Bingham, Tex. Cit. 8(14): 16, 1934.
iDu Puy, Country Home 54(2): 34-36, 140, 1930.
iFlint & Metcalf, Insects Man's Chief Competitors: 1-17, 1932.
biFolsom, Entomology, ed. 4 rev.: 512-514 (c1934).
Herron, Extermin. Log 1(11): 11, 1933.
Hinds, Extermin. Log 1(2): 12-13, '33.
Howard, J. Md. Acad. Sci. 1(2): 80-89, 1930.
iHoward, Sci. News Letter 20: 237, '31.
iHoward, Sci. Amer. 145: 88-90, 1931.
Howard, Smithsonian. R. f. 1930: 395-399, 1931.
iHoward, La Hacienda 27: 139-141, '32.
Howard, Extermin. Log 1(9): 15, 1933.
iHuxley, Woman's Home Compan. 58(10): 10-11, 62, 67, 68, 1931.
Jennings, Extermin. Log 1(5): 6-7, '33.
Langdon-Davies, Forum 90: 351-354, 1933.
iLutz, J. Amer. Mus. Nat. Hist. 31(1): 49-57, 1931.
Marlatt, N.Y. Farm. P. f. 1929/1930: 7-26.
Marlatt, Cit. Ind. 11(8): 9, 1930.
biMetcalf & Flint, Fund. of Ins. Life, ed. 1: 1-42, 1932.
Russell, Scribner's Mag. 96: 380, 1934.
Santiago, Rev. Agr. P.R. 24: 213, 1930.
iStone, Oil, Paint & Drug Report 122(27): 15, 1932.
- Inspection**
Glenn, Ill. St. Hort. Soc. Trans. 64: 141-153, 1930.
Whitney, Hawaiian For. & Agr. 28: 76-79, 1931.
- Inspection—Aeroplane**
Fleury, Cal. Agr. Mo. B. 19: 819-820, 1930; B. 22: 533, 1933.
Ryan, Pac. Rur. Press 121: 62, 1931.
- Inspection—Apiary**
Baldwin, N.Y. Dept. Agr. & Markets, R. f. 1932: 80-85, 1933.
iBaldwin, N.Y. St. Dept. Agr. R. f. 1933: 103-109, 1934.
Britton, Conn. B. 327: 490-491, 1931; B. 338: 531-542, 1932; B. 349: 394-399, 1933; B. 360: 420-425, 1934.
Dean, Ida. Dept. Agr. Bien. R. 6: 19-26, 1930.
Gilbert, Mass. Dept. Agr. R. f. 1929/1930: 19-20; R. f. 1930/1931: 16-17; R. f. 1931/1932: 17-18; R. f. 1932/1933: 19.
Heard, Tex. R. 43: 40, 1930.
Jacobsen, Cal. Agr. Mo. B. 19: 807-808, 1930.
iKildow, Ill. St. Dept. Agr. R. 16: 24-26, 1933.
Moulton, Cal. Agr. Mo. B. 20: 759-760, 1932.
Newell, Fla. St. Pl. Bd. Bien. R. 9: 16-17, 28, 1933; R. 10: 17-19, 1934.
Parker, Kans. Ent. Comm. Bien, R. 12: 24-26, 1931; R. 14: 14-16, 1934.
iParker, Kans. Ent. Comm. C. 10, 1932, 17p.
Pyrke, N.Y. Dept. Agr. & Markets R. f. 1929: 78-82, 1930; R. f. 1930: 65-68, 1931; R. f. 1931: 76-82, 1932.
Richmond, J. Ec. Ent. 26: 194-196, 1933.
Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 29; R. f. 1932: 25.
Slate, Conn. B. 357: 126, 1934.
Starkey, Ind. St. Dept. Conserv. Div. Ent. R. f. 1931: 37-46, 1932.
iTanquary, Minn. Hort. 59: 171, 1931.
iTodd, Cal. Agr. Mo. B. 19: 871, 892, 1930.
Vansell, J. Ec. Ent. 24: 636-638, 1931.
Wallace, Ind. Dept. Conserv. R. 11: 62-65, 1929.
Wallace, Ind. YB f. 1930: 489-497; YB f. 1931: 833-842; YB f. 1932: 311-327; YB f. 1933: 365-368; YB f. 1934: 603-606.

Inspection—Apiary *Cont'd*

Wallace et al, Ind. Dept. Conserv. R.
14: 59-61, 1932.

Wallace et al, Ind. Dept. Conserv. Div.
Ent. R. f. 1933: 6-11.

Inspection—Apiary—Arizona

Skinner, Ariz. Comm. Agr. & Hort. R.
21-22: 41-45, 1931.

Inspection—Apiary—California

Mackie, Cal. Agr. Mo. B. 22: 470-471,
1933.

Inspection—Apiary—Maryland

Symons, Md. Ext. R. 18: 64, 1933.

Inspection—Apiary—Michigan

Metzger, Mich. St. Dept. Agr. Bien. R.
6: 21-23, 1934.

Powell, Mich. St. Dept. Agr. Bien. R.
4: 22-25, 1930; R. 5: 25-28, 1932.

Inspection—Apiary—Missouri

Sullivan, Iowa St. Hort. Soc. Trans. 65:
403-410, 1930.

Inspection—Apiary—New Brunswick

Miller, N.B. Dept. Agr. R. f. 1931:
109-111, 1932.

Inspection—Apiary—New Jersey

iCarr, N.J. Dept. Agr. C. 197, 1931, 16p.
Weiss, N.J. Dept. Agr. R. 16: 155-156,
1931; R. 17: 116-118, 1932; R. 18:
108-110, 1933.

N.J. Dept. Agr. C. 184: 125-133, 1930.

Inspection—Apiary—Pennsylvania

Kirk, Penn. Gen. B. 499, 1931, 15p.

Inspection—Apiary—Tennessee

Bentley, Tenn. Dept. Agr. Bien. R. f.
1931/1932: 147-148.

Inspection—Apiary—Texas

Heard, Tex. R. 44: 38-39, 1931.

iThomas & Heard, Tex. C. 64, 1932, 9p.

Thomas & Heard, Tex. R. 46: 49, 1933;
R. 47: 53, 1934.

Inspection—Border

Fleury, Cal. Agr. Mo. B. 19: 816-819,
1930; B. 22: 533-535, 1933.

Inspection—Canning factories

Doherty, Fruits & Gardens 47(1): 14, 31.
Kennedy, Ont. Agr. Coll. & Exp. Farm
R. 56: 118-119, 1930.

Inspection—Corn silk doll

USDA Off. Rec. 10: 67, 1931.

Inspection—Cotton

iRoe, Farm & Ranch 49(42): 1, 3, 11,
1930.

Inspection—Farm products

Britton & Johnson, Conn. B. 349: 411-
415, 1933.

Inspection—Food products

Wicks, Ida. St. Hort. Assoc. P. 36: 165-
168, 1931.

Inspection—Hawaii

Whitney, Hawaii Bd. Comm. Agr. &
For. Bien. R. f. 1930: 85-97, 1931.

Inspection—Highway

Rogers, Cal. Agr. Mo. B. 20: 644-647,
1931.

Inspection—Horticultural notes

J. Ec. Ent. 24: 1115-1118, 1931.

Inspection—Imported stock

Britton & Zappe, Conn. B. 315: 516-
519, 1930; B. 338: 529-530, 1932.
Huff, Glad. Rev. 9: 131-137, 1932.

Lyne, B.C. Dept. Agr. R. 24: 29 I, 34 I,
1929.

Strong, USDA PQCA R. f. 1930: 66-
82.

Inspection—Interstate

Fleury, Cal. Agr. Mo. B. 19: 821-822,
1930; B. 22: 529-532, 1933.

Inspection—Mills

Blackwell, Okla. R. f. 1926/1930: 269-
270.

Inspection—Missouri

Sullivan, J. Ec. Ent. 23: 550-553, 1930

Inspection—Narcissus bulbs

Del Curto, Tex. Comm. Agr. R. 24: 55,
1932.

Pyrke, N.Y. Dept. Agr. & Markets,
R. f. 1930: 60, 1931.

Inspection—Nursery

Britton, Conn. C. 73: 3-5, 1931.

Burkett & Del Curto, Amer. Nurserym.
54: 217, 1931.

Girardeau, Ga. St. Ent. B. 77: 49-52,
1933.

Glenn, Ill. Dept. Agr. R. 13: 52-54,
1930; R. 14: 73-75, 1931; R. 15: 56-
59, 1932; R. 17: 60-64, 1934.

Pyrke, N.Y. St. Dept. Agr. R. f. 1931:
71-75, 1932.

Ruggles, Minn. Hort. 62: 93, 1934.

Slate, Conn. B. 357: 125-126, 1934.

Ulman, Gilbert & Marian, Ind. Dept.
Conserv. R. 14: 35-38, 1933.

Van Buren & Eastman, N.Y. Dept.
Agr. & Markets, C. 432, 1931, 43p.;

- C. 454, 1932, 44p.; C. 471, 1933, 51p.; C. 487, 1934, 52p.
- Kans. Ent. Comm. C. 4, 1931, 15p.
- Miss. St. Pl. Bd. Quar. B. 10(1): 20, 1930; B. 10(2): 13, 1930; B. 11(3): 17, 1931.
- iOutdoor Ind. 1(2): 3, 1934.
- Inspection—Nursery—Arizona**
 Ariz. Comm. Agr. & Hort. R. 21-22: 38-41, 1931.
- Inspection—Nursery—Connecticut**
 Britton & Zappe, Conn. B. 315: 502-516, 1930; B. 338: 517-528, 1932; B. 349: 383-393, 1933; B. 360: 407-419, 1934.
- Inspection—Nursery—Florida**
 Newell, Fla. St. Pl. Bd. Bien. R. 9: 28, 1933.
- Inspection—Nursery—Indiana**
 Wallace, Ind. YB f. 1930: 468-477; YB f. 1931: 802-813; YB f. 1932: 291-302.
 Wallace, Ind. Dept. Conserv. R. 13: 32-48, 1931; R. 14: 39-50, 1932.
 Ind. Dept. Conserv. Div. Ent. R. f. 1931: 6-8, 1932.
- Inspection—Nursery—Iowa**
 Drake, Iowa Dept. Agr. YB 31: 145-153, 1931; YB 32: 98-101, 1932; YB 33: 49, 1933.
- Inspection—Nursery—Kansas**
 Dean, Kans. Ent. Comm. Bien. R. 14: 17-19, 1934.
 Hungerford, Kans. Ent. Comm. Bien. R. 12: 5-7, 27-34, 1931; R. 14: 20-24, 1934.
- Inspection—Nursery—Kentucky**
 Cooper, Ky. R. 45, Pt. 1: 58, 1933.
- Inspection—Nursery—Louisiana**
 Anderson, La. Com. Agr. & Immig. Bien. R. 26: 10-17, 1934.
- Inspection—Nursery—Maryland**
 Symons, Univ. Md. & St. Bd. Agr. Bien. R. f. 1928/1930: 116.
 Symons, Md. Ext. R. 18: 64, 1933.
- Inspection—Nursery—Massachusetts**
 Gilbert, Mass. Dept. Agr. R. f. 1929/1930: 17-18; R. f. 1931/1932: 16; R. f. 1932/1933: 17.
- Inspection—Nursery—Michigan**
 Mandenberg, Mich. Dept. Agr. B. 62, 1930, 50p.; B. 66, 1932, 48p.; B. 68, 1933, 36p.
- Metzger, Mich. St. Dept. Agr. Bien. R. 6: 38-45, 1934.
- iPowell, Mich. St. Dept. Agr. Bien. R. 4: 41-48, 1930; R. 5: 35-39, 1932.
- Inspection—Nursery—Minnesota**
 iAamodt, Minn. Hort. 60: 101-102, '32.
- Inspection—Nursery—New Jersey**
 Weiss, N.J. St. Dept. Agr. R. 17: 113-115, 1932; R. 18: 105-108, 1933; R. 19: 136-138, 1934.
 N.J. Dept. Agr. C. 184: 115-125, 134-140, 1930.
- Inspection—Nursery—South Carolina**
 Berly, S.C. C. 43, 1930, 32p.
- Inspection—Nursery—Texas**
 Del Curto, Tex. Dept. Agr. B. 106, 1931, 81p.; R. 24: 52-53, 1932.
- Inspection—Nursery—Vancouver**
 Lyne, B.C. Dept. Agr. R. 24: 29 I, 1929.
- Inspection—Nursery—Wisconsin**
 Chambers, Wis. Dept. Agr. B. 109: 3-7, 1930; B. 115: 37-42, 1931; B. 141: 91, 93-96, 1933.
- Inspection—Orchard**
 Gipson, Ida. Dept. Agr. Bien. R. 6: 58-60, 1930.
 Slate, Conn. B. 357: 125-126, 1934.
 Wicks, Ida. Dept. Agr. Bien. R. 6: 27-39, 1930.
- Inspection—Orchard—Kansas**
 Liston, Kans. Ent. Comm. Bien. R. 14: 3-7, 1934.
 Yapp, Kans. Ent. Comm. Bien. R. 14: 8-13, 1934.
- Inspection—Orchard—Michigan**
 iMetzger, Mich. St. Dept. Agr. Bien. R. 6: 38-45, 1934.
 iPowell, Mich. St. Dept. Agr. Bien. R. 4: 41-48, 1930; R. 5: 35-39, 1932.
- Inspection—Passenger train**
 Fleury, Cal. Agr. Mo. B. 19: 820-821, 1930; B. 22: 535, 1933.
- Inspection—Policies**
 Headlee, J. Ec. Ent. 24: 547-549, 1931.
- Inspection—Port**
 iFleury, Cal. Agr. Mo. B. 19: 812-816, 1930.

Inspection—Problem

Nat. Nurserym. 40(12): 6-7, 1932.

Inspection—Sweet potato

Girardeau, Ga. St. Ent. B. 77: 50, 1933.

Inspection—Terminal

Tilton, USDA PQCA SRA 108: 122, 1931.

Inspection—Vegetable

Girardeau, Ga. St. Ent. B. 77: 51, 1933.

Inspection service—Plant—Canada

Weir, Can. Min. Agr. R. f. 1930/1931: 129-133; R. f. 1931/1932: 171-174; R. f. 1932/1933: 50; R. f. 1933/1934: 58-60.

Inspection service—Puerto Rico

Colon, P.R. Dept. Agr. & Comm. Inf. An. Span. ed. f. 1931/1933: 37-39.

*Introduced pine sawfly, *see* *Diprion simile*

*To moth, *see* *Automeris io* (F.)

Iomoides, I. glabra, hispidus

nLoomis, Smithsonian. Misc. Coll. 89(14): 49-53, 1934.

Ionia, I. triunata

nBall, Bklyn. Ent. Soc. B. 28: 225-226, 1933.

Iopobracon rimac

iJaynes, Grace Log, 14: 108-109, 1931.

Jaynes, Facts about Sugar, 27: 179, '32.

Jaynes, J. Ec. Ent. 25: 66-67, 1932.

Jaynes, Sugar B. 10(13): 4-5; 10(18): 6-7, 1932.

iJaynes, USDA B. 363: 14-18, 1933.

Lobdell, Fla. R. f. 1934: 96-97.

bScaramuzza, Assoc. Tecn. Azucar. Cuba P. 6: 92, 1932.

Iopobracon spp.

Wolcott, Ec. Ent. of West Indies: 179-180, 1933.

Iopobracon tucumanus

iJaynes, USDA TB 363: 11-14, 1933.

Ioctonus conformis

nWalley, Can. Ent. 65: 257-258, 1933.

Ips confusus

Burke, Cal. Agr. Mo. B. 21: 366, 1932.

Ips emarginatus

Keen, J. Ec. Ent. 26: 297-298, 1933.

Ips grandicollis

Orr, Minn. R. 41: 58-59, 1934.

Ips grandicollis and Blue stain of pine

biLeach, Orr & Christensen, J. Agr. Res. 49: 315-341, 1934.

Ips oregoni

Keen, J. Ec. Ent. 26: 297-298, 1933.

Weaver, J. For. 32: 100-103, 1934.

Ips perotti

Schedl, Can. Ent. 64: 1, 1932.

Ips pini

Knoll, For. Leaves, 23: 16, 1931.

biLeach, Orr & Christensen, J. Agr. Res.

49: 315-341, 1934.

MacDonald, N.Y. Conserv. Dept. R. 20: 188, 1930.

Orr, Minn. R. 41: 58-59, 1934.

Prebble, Can. Ent. 65: 148-150, 1933.

Schedl, Can. Ent. 64: 1, 1932.

Ips spp.

Blackman, N.Y. St. Col. For. Tech.

Pub. 36: 33-34, 1931.

Keen, J. Ec. Ent. 26: 297-298, 1933.

biRumbold, J. Agr. Res. 43: 863-871, '31.

iCornell, Rur. School Leaf. 25(2): 10-11, 1931.

Irbisia cuneo-maculata—California

nBlatchley, Trans. Amer. Ent. Soc. 60: 13, 1934.

Irbisia sita

Sweet, J. Ent. & Zool. 22: 80, 1930.

Irbisia solani

biLockwood, Cal. Agr. Mo. B. 22: 329-331, 1933.

Iridomyrmex analis

Bentley & Rogers, Tenn. Pl. Dis. Control. B. 40: 15, 1931.

Iridomyrmex humilis (Argentine ant)*

Berly, S.C. C. 43: 17, 1930.

iEssig, Hist. of Ent.: 263-265, 1931.

Greene, Cal. Agr. Mo. B. 21: 258, 1932.

iHaug, Ann. Ent. Soc. Amer. 27: 621-632, 1934.

Herbert, J. Ec. Ent. 25: 832-833, 1932.

Hertzer, Ann. Ent. Soc. Amer. 23: 597-609, 1930.

bQuayle, Cal. B. 542: 63-64, 1932.

Ryan, Los Angeles Co. Com. Agr. R. f. 1931, 19; R. f. 1932, 14.

Sanderson, Ins. Pests Farm, ed. 3: 472-474, 1931.

Smith & Armitage, Cal. B. 509: 56, '31.

Symons, Md. Ext. R. 18: 65, 1933.

Wilson & Anderson, Miss. St. Pl. Bd.

Quar. B. 10(4): 4-10, 1931.

Wright, Cal. Agr. Mo. B. 20: 407-409, 1931.

- Miss. St. Pl. Bd. Quar. B. 10(3): 1-9, 1930; B. 10(4): 11, 1931.
- **Iris borer*, *see* *Macronoctua onusta* Grtöe
- Iris insects*
- iBritton, Conn. B. 349: 448, 1933.
- Dodge & Smith, Amer. Iris Soc. B. 35: 38-40, 1930.
- iFreeborn, South. Cult. 88(1): 16, 1930.
- Gibson, Ent. Soc. Ont. R. 60: 100-102, 1929.
- biGriswold, Ann. Ent. Amer. 27: 545-549, 1934.
- Iris snout beetle*, *see* *Mononychus vulpeculus*
- **Iris thrips*, *see* *Bregmatothrips iridis*
- Iris weevil*, *see* *Mononychus vulpeculus*
- Iron dispar*
- inTraver, Elisha Mitchell Sci. Soc. J. 48: 161-165, 1933.
- Iron pleuralis*
- iIde, Can. Ent. 62: 228-229, 1930.
- Iron rubidus*
- inTraver, Elisha Mitchell Sci. Soc. J. 48: 158-161, 1933.
- Irrorate leaf hopper*, *see* *Phlepsius irroratus*
- Isabella tiger-moth*, *see* *Isia isabella*.
- Isagoras* 35-47, *apolinari* 37, *chopardi* 37-38, *ecuadoricus* 37
- inHebard, Trans. Amer. Ent. Soc. 59: 1933.
- Isandrus*, *I. cicatricosus*
- nRehn, P. Acad. Nat. Sci. Phila. 81: 514-517, 1929.
- Ischalia costata*
- Frost, Bklyn. Ent. Soc. B. 26: 35, 1931.
- Isachio gonus syagrii*
- Swezey, Hawaiian Ent. Soc. P. 7: 356, 1931.
- Ischnocerus angulata*
- nMartin, Pan-Pac. Ent. 7: 71-72, 1930.
- Ischnorrhynchus obovatus*
- nVan Duzee, Pan-Pac. Ent. 7: 110, 1931.
- Ischnura kellicotti*
- Williamson, Mich. Univ. Mus. Zool. Occ. Pap. 288: 14, 1934.
- Ischnura sp.*
- bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 268, 1930.
- Ischnura verticalis*
- Bird, Sci. Month. 36: 374, 1933.
- George, Studies on the Biology of the Damsel Fly, 1933, 3p. (Abstract)
- Ischyrys quadripunctatus alabamæ*
- Schaeffer, Bklyn. Ent. Soc. B. 26: 175-176, 1931.
- Isodontia*—*Nesting habits*
- Bequaert, Bklyn. Ent. Soc. B. 25: 122-123, 1930.
- Isodontia harrisii*
- Swezey, Hawaiian Ent. Soc. P. 8: 241, 1933.
- Williams, Hawaiian Ent. Soc. P. 8: 25, 1932.
- Isogenus*
- biClaassen, Plecoptera Nymphs of America; 45-46, 1931.
- Isohydnocera curtipennis*—*Larval habits*
- bSabrosky, J. Kans. Ent. Soc. 7: 65-68, 1934.
- Isomorpha subvexa*
- Manson, Can. Ent. 63: 171-172, 1931.
- Isoneurothrips brevicornis*
- inMoulton & Steinweden, Bernice P. Bishop Mus. B. 98: 165-167, 1932.
- Isonychia* (Ephemeroptera)
- iMcDunnough, Can. Ent. 63: 157-163, 1931.
- inNeedham, Can. Ent. 64: 273-274, '32.
- inTraver, Elisha Mitchell Sci. Soc. J. 47: 204-224, 1932.
- Isoperla fumosa*
- inNeave, Can. Ent. 65: 235-237, 1933.
- Isopoda*
- Blake, Bost. Soc. Nat. Hist. Occ. Pap. 5: 341-348, 1931.
- inBoone, BAMNH 66: 567-598, 1934.
- Isoptera*
- iEssig, Hist. of Ent.: 96-97, 1931.
- Wallace, Ind. Dept. Conserv. R. 13: 57-59, 1931.
- Isosoma grandis*, *see* *Harmolita grandis*
- Isosoma orchidearum*, *see* *Eurytoma orchidearum*
- Isosoma tritici*, *see* *Harmolita tritici*
- Isotoma andrei*
- inMills, Collembola of Iowa: 58, 1934.
- Isotoma berselsii*
- iDavenport, J. Wash. Acad. Sci. 20: 323-324, 1930.
- Isotoma eunotabilis*
- nMills, Collembola of Iowa: 58-60, 1934.

- Isotoma minor*
iFolsom, Hawaiian Ent. Soc. P. 8: 63-64, 1932.
- Isotoma nigrifrons*
inMills, Collembola of Iowa: 60-62, 1934.
- Isotoma palustris*
James, Royal Can. Inst. Trans. 41: 80-83, 1933.
- Isotomodes denisi*
inFolsom, Hawaiian Ent. Soc. P. 8: 59-60, 1932.
- Isotomodes tenuis*
inMills, Collembola of Iowa: 46-47, 1934.
- Isotomurus palustris*
Bare, J. Ec. Ent. 27: 180, 1934.
- Itameribearia (Fitch) (Currant spanworm)**
Twinn, Ent. Soc. Ont. R. 64: 73, 1933.
Twinn, Ent. Soc. Ont. R. 65: 121, 1934.
- *Itch mite, see Sarcoptes scabiei Deg.*
- Ithone fusca*
iBade, Gard. Chron. Amer. 37: 16, 1933.
Howard, Insect Menace: 226-228, '31.
- Ithycerus noveboracensis (Forst.) (New York weevil)**
Britton, Conn. B. 327: 573, 1931.
Quaintance & Siegler, USDA FB 1270: 37-38, 1931.
- Itopectis conquisitor*
Crowell, Psyche 39: 102, 1932.
Tessier, Nat. Can. 57: 64, 1930.
- Itopectis obesus*
Keifer & Jones, Cal. Agr. Mo. B. 22: 387, 1933.
- Ittys platycotis*
nDozier, P. Ent. Soc. Wash. 34: 32-33, 1932.
- Itycorsia sp.*
Burke, Nat. Shade Tree Conf. P. 9: 58, 1933.
- Ivy scale, see Aspidiotus hederæ*
- Ixodes (Wood tick)*
Ormsby, Pract. Treat Dis. Skin. ed. 4: 1060-1061, 1934.
- Ixodes auritulus—North America*
Philip, Science n.s. 78: 145-146, 1933.
- Ixodes hexagonus*
iMohler, USDA FB 1625: 11, 1930.
- Ixodes ricinus (L.) (Castor-bean tick)**
Buckell, B.C. Ent. Soc. P. 31: 17-21, 1934.
Jellison, J. Parasit. 20: 243, 1934.
iMohler, USDA FB 1625: 8, 10, 1930.
- Rawson, Sci. Month. 39: 507, 1934.
Vet. Med. 28: 317, 1933.
- Ixodes ricinus californicus*
Buckell, B.C. Ent. Soc. P. 31: 17-21, 1934.
- Ixodes sculptus*
biHixson, Iowa St. Col. J. Sci. 7(1): 35-42, 1932.
- Ixodidae*
Bequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 799-811, 1930.
bJellison, Amer. Micros. Soc. Trans. 52(1): 43, 1933.
biJellison & Philip, U.S. Pub. Health R. 48: 1081-1082, 1933.
Reed, Science n.s. 72: 619-620, 1930.
- Ixodiphagus caucurtei, see Hunterellus hookeri*
- Ixodiphagus sp.*
Cooley, Science n.s. 71: 420, 1930.
- Ixodiphagus texanus*
Bishopp, P. Ent. Soc. Wash. 36: 87, 1934.
Cooley, U.S. Pub. Health R. 49: 111-112, 1934.
- biGahan, P. Ent. Soc. Wash. 36: 89-97, 1934.*
- Ixodoidea*
biRiley & Johannsen, Med. Ent.: 67-96, 1932.
Stoddard, Bobwhite Quail: 317-320, 1931.
- Iziphya flabella, maculata*
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 907, 908, 1931.
- Jack pine sawfly, see Neodiprion sp.*
- Jacobsonina, J. simplex*
nHebard, P. Acad. Nat. Sci. Phila. 81: 56-58, 1929.
- Jalysus spinosus*
iAbbott, Bklyn. Ent. Soc. B. 28: 43-44, 1933.
- Janus integer (Currant stem girdler)**
Crosby, Rankin & Mills, N.Y. (C.) Ext. B. 306: 20, 1934.
biSoraci, N.J. Dept. Agr. C. 243: 43-45, 1934.
- Janus piri*
bClausen, USDA C. 168: 25, 1931.
- Japanaus*
nBall, Can. Ent. 63: 218, 1931.

Japananus hyalinus

Ball, Can. Ent. 64: 252, 1932.

*Japanese beetle, *see* *Popillia japonica*

Japanese scale, *see* *Leucaspis japonica*

Japanese weevil, *see* *Calomycterus setarius*

Japyx sp.

Ingram, Sugar B. 12(12): 4, 1934.

Jassus wolcottii

inDozier, Amer. Mus. Nov. 510: 12-13, 1931.

*Jeffrey pine beetle, *see* *Dendroctonus jeffreyi* Hopk.

Jemadia merops

inBell, J. N.Y. Ent. Soc. 41: 502-503, '33.

Jemadia theseus

inBell, J. N.Y. Ent. Soc. 41: 503-504, '33.

*Jerusalem cricket, *see* *Stenopelmatus fuscus* Hald.

Joblotia digitata and Yellow fever

bKumm & Frobisher, Amer. J. Trop. Med. 12: 351-352, 1932.

Johnsonia lagunicula

inHall, BAMNH 66: 256-258, 1933.

Jonthonota nigripes (Oliv.) (Black-legged tortoise beetle)*

Herrick, Rur. N.Y. 91: 614, 616, 1932.

Joruma minuta

in Lawson, Pan-Pac. Ent. 6: 136, 1930.

Jugurtia oraniensis

Bequaert, J. N.Y. Ent. Soc. 39: 133, 1931.

Julus hortensis (Garden millipede)

Britton, Conn. B. 344: 171-172, 1933.

Jumping bean, see *Carpocapsa saltitans***June beetles, see** *Phyllophaga spp.***Juniper insects**

McDaniel, Mich. Quar. B. 16: 244-246, 1934.

Juniper scale, see *Diaspis visci***Juniper web-worm, see** *Dichomeris marginella***Junonia coenia**

Tissot, Fla. Ent. 14: 52, 1930.

Kakimia

nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 344, 1931.

Kakimia—Key 159-160, *alpina* 160-161.

Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 1934.

Kakimia cerei

inGillette & Palmer, Ann. Ent. Soc. Amer. 26: 354-356, 1933.

Kakimia cynosbiati 162-163, *essigi* 163-164, *polemonii* 165, *potentillae* 165-166, *purpurascens* 166, *takala* 166-167, *tutigula* 167, *wahinkae* 168.

iGillette & Palmer, Ann. Ent. Soc. Amer. 27: 1934.

Kaktivoria flavofasciata

bClausen, USDA C. 168: 29, 1931.

Kaliofenusa ulmi (Elm leaf miner)*

Ladd, N.Y. (Gen.) R. 52: 64, 1933.

iMcDaniel, Mich. Sp. B. 243: 59-60, 1933.

biSoraci, N.J. Dept. Agr. C. 243: 26-27, 1934.

Twinn, Ent. Soc. Ont. R. 64: 77, 1933.

Kaliosysphinga dohrnii, see *Fenusa dohrnii***Kaliosysphinga ulmi, see** *Kaliofenusa ulmi***Kaloterms (Neoterms) andamanensis**

nSnyder, PUSNM 82(16): 2, 1933.

Kaloterms (Metaneoterms) athertoni

inLight, Bernice P. Bishop Mus. B. 98: 78-80, 1932.

Kaloterms (Glyptoterms) bilobatus

nSnyder, P. Biol. Soc. Wash. 47: 95-96, 1934.

Kaloterms (Neoterms) bosei

nSnyder, PUSNM 82(16): 2-3, 1933.

Kaloterms (Calcariterms) brevicollis

biZeliff, Amer. J. Hyg. 11: 740-742, 1930.

Kaloterms (Neoterms) brevinotus

nSnyder, P. Ent. Soc. Wash. 34: 98-100, 1932.

Kaloterms (Cryptoterms) brevis

bLight, Cal. Univ. Pub. Ent. 6(5): 103, 1933.

Kaloterms (Cryptoterms) dolei

inLight, Bernice P. Bishop Mus. B. 98: 81-83, 1932.

Kaloterms emersoni

binLight, Cal. Univ. Pub. Ent. 6(5): 86-88, 1933.

Kaloterms (Neoterms) gardneri

inSnyder, PUSNM 82(16): 3-4, 1933.

Kaloterms hubbardi

Essig, Hist. of Ent.: 96, 1931.

Light, Pan-Pac. Ent. 6: 179, 1930.

iLight et al., Cal. C. 318: 23, 1930.

biLight, Cal. Univ. Pub. Ent. 6(5): 88-91, 1933.

Kaloterms hubbardi *Cont'd*

Light, Kofoid, Termites and Termite Control: 257-258, 1934.

Kaloterms jouteli

Light, Pan-Pac. Ent. 6: 179, 1930.

bLight, Cal. Univ. Pub. Ent. 6(5): 92, '33.

Kaloterms (Glyptoterms) juddi

nLight, Bernice P. Bishop Mus. B. 98: 169-170, 1932.

Kaloterms (Kaloterms) marginipennis

biLight, Cal. Univ. Pub. Ent. 6(5): 92-97, 1933.

Light, Kofoid, Termites and Termite Control: 259, 1934.

Kaloterms minor

iEssig, Hist. of Ent.: 96, 1931.

Harvey, Vedalia 2(3): 7-8, 1933.

biHendee, Cal. Univ. Pub. Zool. 39: 111-133, 1933.

bLight, Cal. Univ. Ent. 6(5): 97-98, '33.

Light, Kofoid, Termites and Termite Control: 208-236, 1934.

iLight et al, Cal. C. 318: 21-22, 1930.

bSmith, Cal. Agr. Mo. B. 19: 557-560, 1930.

Cit. Leaves 10(8): 31, 1930.

Kaloterms (Calcaritermes) nearcticus

inSnyder, P. Ent. Soc. Wash. 35: 68-69, 1933.

Kaloterms (Cryptoterms) occidentalis

bnLight, Cal. Univ. Pub. Ent. 6(5): 103-104, 1933.

Kaloterms occidentis

biLewis, Cal. Univ. Pub. Zool. 39: 77-96, 1933.

Light, Cal. Univ. Pub. Ent. 6(5): 85-86, 1933.

Kaloterms (Calcaritermes) parvnotus

binLight, Cal. Univ. Pub. Ent. 6(5): 101-103, 1933.

Kaloterms perparvus

bnLight, Cal. Univ. Pub. Ent. 6(5): 98-99, 1933.

Kaloterms platycephalus

binLight, Cal. Univ. Pub. Ent. 6(5): 99-100, 1933.

Kaloterms snyderi

bLight, Cal. Univ. Pub. Ent. 6(5): 97, 1933.

Kaloterms sp.

biLight, Cal. Univ. Pub. Dept. Geol. Sci. B. 19: 75-80, 1930.

Kaloterms sp.—Flagellates

Kirby, J. Parasit. 20: 121, 1933.

Kalotermitidae

Light, Cal. Univ. Pub. Ent. 6(5): 83-104, 1933.

Kangaroo-dog louse, see Heterodoxus longitarsus**Karnyothrips ochropezus**

nHood, P. Biol. Soc. Wash. 47: 71-73, 1934.

Karschiella neavei 2-3, *pygmaea* 3-6,

inRehn, Trans. Amer. Ent. Soc. 59, 1933.

Karschomyia cocci

Wolcott, Ec. Ent. of West Indies: 239-240, 1933.

Kashmirothyas hutchinsoni

inLundblad, Conn. Acad. Arts & Sci. Mem. 10: 102-107, 1934.

Katy-did, see Tettigoniidae**Keirosoma slossonae**

inVan Duzee, Amer. Mus. Nov. 655: 2-3, 1933.

Kelisia paludum

Swezey, Hawaiian Ent. Soc. P. 8: 10, 1932.

Kelly's flesh-fly, see Sarcophaga kellyi**Kermes galliformis**

Friend, Conn. B. 315: 615, 1930.

Kermes pubescens (Burr oak kermes)

iMcDaniel, Mich. C.B. 133: 13-14, '30.

Kinonia, K. elongata

nBall, Bklyn. Ent. Soc. B. 28: 224-225, 1933.

Kissing bugs, see Reduviidae**Knausia crassicornis**

nFall, J. Kans. Ent. Soc. 4: 16, 1931.

Koa seed worm, see Hedia ochroleucona*Kodormus bruneosus**

nBarber, Ent. Amer. n.s. 10: 214-216, 1930.

Kolofog, see Spray materials—Bentonite-sulphur**Kophosoma exiguus**

nVan Duzee, Amer. Mus. Nov. 655: 8-9, 1933.

Krizousacorixa

nHungerford, Pan-Pac. Ent. 7: 22, 1930.

Krizousacorixa azteca, femorata

biAncona, Mex. Univ. Nac. Inst. Biol. Anal. 4: 51-69, 1933.

- Kröberia, K. floridensis**
nAldrich, PUSNM 81(9): 9-11, 1932.
- Kuchinga, K. diacantha**
inHebard, P. Acad. Nat. Sci. Phila. 81: 41-46, 1929.
- Kuwayama lavaterae** 33, **medicaginis** 12.
Klyver, Ent. News 43: 1932.
- Kytorhinus karasini** in herbaria
Bridwell, J. N.Y. Bot. Gard. 33: 108, 1932.
- Labia swezeyi**—Hawaii
inHebard, Ent. News 43: 31-32, 1932.
- Labidura riparia**
biAsana & Makino, J. Morph. 56: 361-369, 1934.
bRehn, P. Acad. Nat. Sci. Phila. 85: 40, 1933.
bRehn, Trans. Amer. Ent. Soc. 59: 165, 1933.
- Labopidae ainsliei, allii**
Buchanan & Stevenson, Iowa R. f. 1933: 71-72.
- Labopidea geminata**
nJohnston, Bklyn. Ent. Soc. B. 35: 298-299, 1930.
- Laboratory apparatus**
biFleming, J. Agr. Res. 48: 115-130, '34.
biFulton & Chamberlin, Science n.s. 79: 346-348, 1934.
iPeterson, Man. of Ent. Equip. & Methods, 1, 1934, 21p., 138 pl.
- Laboratory apparatus—Atmometer**
iMorris & Durrell, Ecology 13: 100-101, 1932.
Stanley, Ecology 13: 218-219, 1932.
- Laboratory apparatus—"Berlese funnel"**
iJacot, Science n.s. 76: 299-300, 1932.
- Laboratory apparatus—Entomotograph**
iYeager & Swain, Iowa St. Col. J. Sci. 8: 519-525, 1934.
- Laboratory apparatus—Flow meters**
iCraig & Richardson, J. Ec. Ent. 23: 988-991, 1930.
- Laboratory apparatus—Fumigators**
biCupples, Indus. & Engin. Chem. Anal. ed. 5: 36-38, 1933.
- Laboratory apparatus—Olfactometer**
Beall, Ent. News 44: 6-10, 1933.
biHoskins & Craig, J. Ec. Ent. 27: 1029-1036, 1934.
- Laboratory apparatus—Spreading board**
Roberts, Ent. News 42: 256-257, 1931.
- Laboratory apparatus—Thermopile**
iRobinson, Ann. Ent. Soc. Amer. 24: 417-423, 1931.
- Laboratory apparatus—Valve**
iSimmons, Ent. News 45: 94-95, 1934.
- Lac insects—Parasites**
biMahdihassan, Ann. Ent. Soc. Amer. 27: 509-514, 1934.
- Laccophilus maculosus**
Gamble, Ent. News 45: 49, 1934.
- Lace-wing flies, see Neuroptera**
- Lachesilla spp.**
inChapman, J. N.Y. Ent. Soc. 38: 346-361, 1930.
- Lachnea**
Knowlton, Can. Ent. 62: 152-161, '30.
- Lachnina—Key**
Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 875, 1931.
- Lachnini—Key**
biShinji, J. Morph. 51: 379, 1931.
- Lachnochaitophorus** 33-34, **L. bisselli** 39-41, **querceus** 34-39
binGranovsky, P. Ent. Soc. Wash. 35: '33.
- Lachnosterna, see Phyllophaga**
- Lachnus edulis tanneri**
nKnowlton, Can. Ent. 62: 155-156, '30.
- Lachnus lasiocarpae**
inGillette & Palmer, Ann. Ent. Soc. Amer. 23: 543-544, 1930.
- Lachnus medispinosus**
iKnowlton, Can. Ent. 62: 153-154, '30.
- Lachnus montanus** 876-877, **roboris** 876, **rosae** 877-878.
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 1931.
- Lachnus sabiniae**
McDaniel, Mich. Quar. B. 16: 245, '34.
- Lachnus salignus**
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 878-879, 1931.
- Lacomb strawberry root-weevil, see Dyslobus wilcoxi**
- Lacon (Adelocera) philippinus**
nFleutiaux, Hawaiian Ent. Soc. P. 8: 478, 1934.
- Lactista gibbosus**
Hebard, Trans. Amer. Ent. Soc. 57: 119, 1931.

- Lactista humilis, punctatus*
inHebard, Trans. Amer. Ent. Soc. 58:
251-253, 1932.
- Lactistomyia mammifera, nigripes*
nCurran, Amer. Mus. Nov. 467: 7-8,
1931.
- Ladella acunae*
binMetcalf & Bruner, Psyche 37: 405-407,
1930.
- Lady bugs, see Coccinellidae*
- Laelaps echidninus*
Ferris, Bernice P. Bishop Mus. B. 98:
117-118, 1932.
Mooser, J. Exp. Med. 54: 571, 1931.
biStanley, Ann. Ent. Soc. Amer. 24: 1-11,
1931.
- Laelaps hawaiiensis*
iFerris, Bernice P. Bishop Mus. B. 98:
118-119, 1932.
- Laelius anthrenivorus*
iVance & Parker, P. Ent. Soc. Wash. 34:
1-7, 1932.
- Laemophloeus minutus* Oliv. (Flat grain
beetle)*
Back & Cotton, USDA FB 1260, rev.:
31-32, 1930.
- Laemophilus pusillus, see Laemophloeus
minutus*
- Laertes philenor, see Papilio philenor*
- Laetilia coccidivora*
Felt, J. Ec. Ent. 26: 50, 1933.
Watson & Berger, Fla. Ext. B. 67: 41,
1932.
- Laevicephalus aridus, bocanus*
inOman, P. Ent. Soc. Wash. 36: 77, 78,
1934.
- Laevicephalus cartwrighti*
inOman, P. Ent. Soc. Wash. 34: 90-91,
1932.
- Laevicephalus debilis, excavatus*
inOman, J. Wash. Acad. Sci. 21: 430-431,
1931.
- Laevicephalus poudris*
inTuthill, J. Kans. Ent. Soc. 3: 44-45,
1930.
- Laevicephalus shingwauki*
inBeamer & Tuthill, J. Kans. Ent. Soc. 7:
19-20, 1934.
- Laevicephalus shoshone*
inDeLong and Davidson, J. N.Y. Ent.
Soc. 42: 221, 1934.
- Laevicephalus striatus*
biOsborn, USDA C. 241: 22-24, 1932.
- Laevicephalus tritus*
inBeamer & Tuthill, J. Kans. Ent. Soc.
7: 17-18, 1934.
- Laevicephalus uhleri*
nOman, J. Wash. Acad. Sci. 21: 432, '31.
- Laevicephalus wilsoni*
inOman, P. Ent. Soc. Wash. 34: 91, 1932.
- Lagoa crispata*
Jones, J. Ec. Ent. 26: 295-296, 1933.
- Lagocheirus obsoletus*
Swezey, Hawaiian Ent. Soc. P. 7: 390,
1931; 8: 227, 371, 1933.
- Lagnodes xanthus*
nWhittaker, P. Ent. Soc. Wash. 32: 72,
1930.
- Lamellitettix mampua*
inRehn, P. Acad. Nat. Sci. Phila. 82: 123-
125, 1930.
- Lamiinae*
Linsley, Bklyn. Ent. Soc. B. 28: 183-
185, 1933.
- Laminosioptes cysticola*
Gibson, Sci. Agr. 11: 210, 1930.
iVan Es & Olney, Neb. B. 290: 110, '34.
Vet. Med. 25: 349, 1930.
- Lampethusa nicholi*
nKnight, Pan-Pac. Ent. 9: 71-72, 1933.
- Lampra alternata*
bCrumb, Bklyn. Ent. Soc. B. 27: 90-91,
1932.
iHutson, Mich. Sp. B. 244: 5-7, 1933.
iPettit, Mich. Sp. B. 239: 12-14, 1933.
- Lampra barnesi*
bCrumb, Bklyn. Ent. Soc. B. 27: 90, '32.
- Lampra brunneicollis*
bCrumb, Bklyn. Ent. Soc. B. 27: 87, '32.
Phipps, Maine B. 356: 167-168, 1930.
- Lampra cupida, placida*
bCrumb, Bklyn. Ent. Soc. B. 27: 88-90,
1932.
- Lamproblatta spp.*
inRehn, Trans. Amer. Ent. Soc. 56: 29-
37, 1930.
- Lamproclitus, L. elegans*
nFisher, PUSNM 80(22): 67-69, 1932.
- Lamprogaster fulvescens, placida*
Malloch, PUSNM 78(15): 11-12, 1931.
- Lamprophytiidae*
biWheeler, Demons of the Dust: 241-
266, 1930.

- Lamproscatella**
 Cresson, Trans. Amer. Ent. Soc. 56: 125-126, 1930.
- Lamprosema indicata**
 Gonzales, Rev. de Agr. Cuba 14(3): 20-21, 1932.
- Lampyridae (Lightning bugs)**
 iCutter, Nature Mag. 22: 37-38, 1933.
- Lampyridae—Photic value**
 iDay, Amer. Photography 26: 530-531, 1932.
- ***Lantana leaf bug**, see *Teleonemia lantanae* Dist.
- ***Lantana plume moth**, see *Platyptilia pusillodactyla* (Walk.)
- Laphria nusoides**
 nBromley, Bklyn. Ent. Soc. B. 25: 287-288, 1930.
- Laphria stygia**
 nBromley, Ann. Ent. Soc. Amer. 24: 433-434, 1931.
- Laphygma exempta**
 Pierce, Ent. News 45: 3, 1934.
- Laphygma exigua** (Hbn.) (Beet armyworm*)
 iCampbell & Duran, P. Ent. Soc. Wash. 32: 48, 1930.
 iKeifer, Cal. Agr. Mo. B. 20: 614-615, 1931.
 bWilson, Fla. Ent. 16: 33-39, 1932; 17: 1-14, 1933.
 Wilson, Fla. R. f. 1932: 87-88; R. f. 1933: 79-80; R. f. 1934: 55.
 biWilson, Fla. B. 271, 1934, 26p.
- Laphygma frugiperda** (S. & A.) (Fall armyworm)*
 Britton, Conn. B. 344: 123-124, 1933.
 iBruner, Rev. de Agr. Cuba 14(22): 94-97, 1934.
 Colón, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1931/1932: 98.
 bCrumb, Bklyn. Ent. Soc. B. 27: 91-92, 1932.
 Douglass, Rice J. 35: 11, 1932.
 Fleury, Cal. Dept. Agr. Sp. Pub. 119: 29-30, 1933.
 iFolsom, USDA FB 1688: 20-22, 1932.
 Holloway & Rands, J. Ec. Ent. 25: 465, 1932.
 Larrimer, USDA Off. Rec. 9(40): 2, '30.
 McDaniel, Mich. Sp. B. 214: 79, 1931.
- Milord, Rev. de Agr. Cuba 12(4): 37-38, 1930.
- Moulton, Cal. Agr. Mo. B. 20: 751, '32.
- iSanderson, Ins. Pests Farm, ed. 3: 92-94, 1931.
- Smith, J. Kans. Ent. Soc. 5: 79-80, '32.
- Watson, Fla. B. 232: 55-56, 1931.
- Laphystia spp.**
 nCurran, Amer. Mus. Nov. 487: 10-19, 1931.
- ***Lappet moth**, see *Epicnaptera americana*
- ***Larch case-bearer**, see *Coleophora laricella* Hbn.
- ***Larch sawfly**, see *Lygaeonematus erichsonii* (Htg.)
- ***Larder beetle**, see *Dermestes lardarius* L.
- Large carpenter ant**, see *Camponotus herculeanus*
- Large carpenter bee**, see *Xylocopa varipuncta*
- ***Large chestnut weevil**, see *Curculio proboscideus* F.
- ***Large chicken louse**, see *Goniocotes gigas* Tasch.
- Large elm bark beetle**, see *Scolytus scolytus*
- Large orange sulphur butterfly**, see *Catopsilia agarithe*
- Large red tailed humble-bee**, see *Bombus lapidarius*
- Large tortoise shell**, see *Aglais j-album*
- Larger apple curculio**, see *Tachypterellus quadrigibbus magnus*
- Larger cabinet beetle**, see *Trogoderma tarsale*
- ***Larger canna leaf roller**, see *Calpodus ethlius* (Cram.)
- Larger grain borer**, see *Dinoderus trunctus*
- Larger sugar beet wireworm**, see *Limoniuss californicus*
- Largidea marginata**
 Usinger, Pan-Pac. Ent. 9: 182, 1933.
- Lariophagus distinguendus**
 Diamond, Ent. Soc. Ont. R. 60: 89, '30.
- Lariophagus texanus**
 Swezey, Hawaiian Ent. Soc. P. 7: 356, 365-366, 1931.
- Larra luzonensis**
 Pemberton, Facts about sugar 27: 485, 1932.

Larra luzonensis Cont'd

Williams, Hawaiian Ent. Soc. P. 8: 25, 1932.

Larva migrans

Cecil, Text-book of Med. ed. 3: 505-507, 1934.

iOrmsby, Pract. Treat. Dis. Skin. ed. 4: 1079-1083, 1934.

Lasia spp.

iBequaert, Amer. Mus. Nov. 455, 1931, 11p.

nBequaert, J. N.Y. Ent. Soc. 39: 498, 1931.

Bequaert, Amer. Mus. Nov. 617: 1-2, 1933.

Lasiobezzia unica

nJohannsen, J. N.Y. Ent. Soc. 42: 345-346, 1934.

Lasiochilus divisus (Pink leaf-sheath bug)

Leonard, P.R. Dept. Agr. J. 16: 139, 1932.

Lasioderma serricorne (F.) (Cigarette beetle)*

Bruner, Rev. de Agr. Cuba 14(15/16): 94, 1933.

Bruner & Arango, Cuba Santiago de las Vegas C. 73: 4-6, 1931.

iBugbee, Compressed Air Mag. 35: 3264, 1930.

Cressman, J. Ec. Ent. 26: 294-295, '33.

iCrumb & Chamberlin, J. Ec. Ent. 26: 259-262, 1933.

bCrumb & Chamberlin, Fla. Ent. 18: 11-14, 1934.

McDaniel, Mich. Quar. B. 16: 1, 13-15, 1933; B. 16: 169, '34.

Marlatt, USDA Ent. R. f. 1932: 27.

iParks & Jones, Ohio Ext. B. 97 rev.: 14-15, 1933.

biPowell, Ecol. Mono. 1: 333-393, 1931.

Reed, P. Ent. Soc. Wash. 36: 125, 1934.

iReed, Livingstone & Morrill, USDA C. 269: 14, 1933.

iReed, Morrill & Livingston, J. Ec. Ent. 27: 796-801, 1934.

iSanderson, Ins. Pests Farm. ed. 3: 285-286, 1931.

Swezey, Hawaiian Ent. Soc. P. 8: 394, 1934.

Twinn, Que. Soc. Prot. Pl. R. 25/26: 53-56, 1934.

Wallace, Ind. Dept. Conserv. R. 11: 61, 1929; R. 13: 56, 1931.

Wallace, Ind. YB f. 1931: 826.

Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 30, 1932.

Wilmot, Fla. R. f. 1934: 69.

Lasioderma serricorne—Lighttrap in warehouses

Science n.s. 79(2043 sup.): 6, 1934.

Lasioderma serricorne—Parasites

biKearns, J. Ec. Ent. 27: 801-806, 1934.

Lasionalia

nCurran, Fam. & Genera of North Amer.

Diptera: 467, 1934.

Lasiophthicus pyrastris

iCrawford, Hawaii Ext. B. 9: 14, 1931.

Lasioptera psederæ

nFelt, Bklyn. Ent. Soc. B. 29: 77-78, 1934.

Lasiotrechus discus

Chagnon, Can. Ent. 66: 168, 1934.

Lasius claviger

Davis, J. N.Y. Ent. Soc. 39: 495, 1931.

Lasius niger (Lawn ants)

biBarnes & Kohn, Biol. B. 62: 306-312, 1932.

Bentley & Roger, Tenn. Pl. Dis. Control B. 40: 14, 1931.

Dickenson, Extermin. Log 1(5): 9, '33.

Lasius niger neoniger

Neiswander, Ohio B. 516: 53-54, 1933.

Rau, Acad. Sci. St. Louis Trans. 28: 208-209, 1934.

Lasius (Acanthomyops) parvula

nSmith, Psyche 41: 213, 1934.

Lasius (Cthonolasius) pilosus

nSmith, Ann. Ent. Soc. Amer. 27: 384-385, 1934.

Lasius sp.

Elling, Country Home 58(4): 54, 1934.

Lasius umbratus

biBarnes & Kohn, Biol. B. 62: 306-312, 1932.

bPark, Ann. Ent. Soc. Amer. 25: 77-78, 1932.

Pettit, Mich. St. Bd. Agr. R. 69: 220-221, 1930.

Lasius umbratus mixus aphidicola

Rau, Acad. Sci. St. Louis Trans. 28: 207-208, 1934.

Laspeyresia caryana (Fitch) (Hickory shuck worm)*

- Burkett, Tex. Dept. Agr. B. 111: 202, 1932.
 Gill, Ga. St. Ent. B. 77: 41, 45, 1933.
 Harned, Miss. R. 40: 27, 1931.
 Kislanko, Nat. Pecan Grow. Assoc. P. 29: 50-51, 1930.
 Marlatt, USDA Ent. R. f. 1930: 10; R. f. 1931: 15; R. f. 1932: 4.
 iMoznette et al., USDA FB 1654: 9-13, 1931.
 Walker, Fla. R. 45: 75, 1931; R. f. 1932: 80.
 biWalker, Fla. B. 258, 1933. 18p.
 Watson, Fla. R. f. 1930: 71.
Laspeyresia cupressana (Cypress bark moth)
 Burke, Cal. Agr. Mo. B. 21: 368, 1932.
 Burke, Nat. Shade Tree Conf. P. 9: 55, 1933.
 Lockwood, Cal. Agr. Mo. B. 18: 772, '29.
Laspeyresia molesta, *see* **Grapholitha molesta**
Laspeyresia nigricana (Steph.) (Pea moth)*
 iDustan, Can. Dept. Agr. Ent. B. 32: 61-62, 1932.
 iDustan, Can. Hort. Fr. ed. 57: 27, 1934.
 Pettit, Mich. St. Bd. Agr. R. 69: 218, 1930.
 Pettit, Mich. Ent. R. f. 1930: 16; R. f. 1931: 16-17.
 iPettit, Mich. R. 44: 266-268, 1931.
 Pettit, Bean-bag 14(9): 12-13, 1932.
 Twinn, Ent. Soc. Ont. R. 65: 117, 1934.
Laspeyresia prunivora, *see* **Grapholitha prunivora**
Laspeyresia schistaceana, *see* **Olethreutes schistaceana**
Laspeyresia splendana
 Hecke, Cal. Dept. Agr. Sp. Pub. 92: 8, 1929.
Latahcoris spectatus
 nCockerell, Ann. Ent. Soc. Amer. 24: 312, 1931.
Latalus curtus, mundus
 inBeamer & Tuthill, J. Kans. Ent. Soc. 7: 5-6, 1934.
Latalus sayi
 biOsborn, USDA C. 241: 24-25, 1932.
Latalus uncinatus, vagus
 inBeamer & Tuthill, J. Kans. Ent. Soc. 7: 6-8, 1934.
Latania scale, *see* **Aspidiotus lataniae**
Laternaria laternaria—Taken at Sea
 Engelhardt, Bklyn. Ent. Soc. B. 29: 207, 1934.
Latheticus oryzae
 Back & Cotton USDA FB 1260 rev.: 34, 1930.
Lathridius laevior
 nBrown, Can. Ent. 64: 208-209, 1932.
Lathrobiothrips, L. ramuli
 nHood, J. N.Y. Ent. Soc. 41: 421-422, 1933.
Lathrolestes spp.
 nCushman, PUSNM 82(14): 10-13, '33.
Lathrophthalmus aeneus
 Swezey, Hawaiian Ent. Soc. P. 8: 10, 1932.
Lathrophthalmus arvorum (Fabr.)
 biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 287-288, 1931.
Latiblattella bradleyi
 nHebard, Trans. Amer. Ent. Soc. 59: 111-113, 1933.
 *Latrine fly, *see* **Fannia scalaris** (F.)
Latrodectus hasseltii
 bdeAssis, Amer. J. Trop. Med. 14(1): 33-44, 1934.
 ‡**Latrodectus mactans** F. (Black widow spider)*
 iAncona, Mex. Univ. Nac. Inst. Biol. Anal. 2: 77-84, 1931.
 iBaker, Sci. Amer. 151(4): 183-185, '34.
 iBlair, Arch. Internal Med. 54: 831-850, 1934.
 Bogen, Sci. Amer. 146: 358, 1932.
 iBrowne, Cal. Agr. Mo. B. 19: 596-597, 1930.
 bdeAssis, Amer. J. Trop. Med. 14(1): 33-34, 1934.
 Dozier, P. Ent. Soc. Wash. 33: 27-28, 1931.
 Ehrhorn, Hawaiian Ent. Soc. P. 8: 228, 1933.
 Exline & Hatch, J. N.Y. Ent. Soc. 42: 449-450, 1934.
 biHall & Vogelsang, U.S. Nav. Med. B. 30: 471-478, 1932.
 iIllingworth, Hawaiian Ent. Soc. P. 7: 410-414, 1931.
 Lawson, Ann. Ent. Soc. Amer. 26: 568-574, 1933.
 iLutz, Amer. Inst. Homeopathy J. 27: 705-709, 1934.

Latrodectus mactans* F. *Cont'd

- biMatheson, Med. Ent.: 440-442, 1932.
 Milzer, Science, n.s. 80: 403, 1934.
 Newport, Univ. Okla. Biol. Surv. Pub. 4: 38-39, 1932.
 bPalmer, J. Fla. Med. Assoc. 17: 64-70, 1930.
 Pemberton, Hawaiian Ent. Soc. P. 8: 376, 1934.
 biRiley & Johannsen, Med. Ent.: 25-29, 1932.
 Taylor, N.C. Health B. 49(8): 12-14, 1934.
 Williams, Hawaiian Ent. Soc. P. 7: 345, 1931.
 biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 325-327, '31.
Laurentia rubens
 Ross, Ann. Ent. Soc. Amer. 24: 108-109, 1931.
Lauxoblatia frater
 niHebard, Trans. Amer. Ent. Soc. 59: 23-24, 1933.
Lauxoblatia magnifica
 niRehn, Trans. Amer. Ent. Soc. 58: 127-130, 1932.
Lawn ants, see *Lasius niger*
Lawn insects
 Blauvelt, N.Y. (C.) Ext. B. 296: 38-43, 1934.
 Britton, Conn. B. 327: 472-473, 1931; B. 338: 593, 1932.
 Chadwick, Flor. Rev. 70(1805): 66, '32.
 Chapin, J. Ec. Ent. 27: 721-722, 1934.
 biDuryee, N.J. Dept. Agr. C. 163, 1929, 13p.
 Filinger, Ohio B. 470: 85, 1931.
 iFleming, Metzger & Osborn, USDA C. 326: 11-12, 1934.
 iFleming & Osburn, USDA C. 238, 1932, 11p.
 iHadley & Hawley, USDA C. 332: 15-16, 1934.
 biHallock, USDA C. 117, 1930. 7p.
 iHallock, Nassau Co. Farm & Home Bur. News 19(6), 1933.
 bLeach, N.J. C. 163, 1929. 13p.
 iMcChesney, Gard. Chron. Amer. 35: 410, 1931.
 Mumford, Ill. R. 43: 149-150, 1930; R. 46, 161-162, 1933.

Noble, USDA C. 248, 1932. 4p.

bNorth & Thompson, J. Ec. Ent. 26: 1117-1125, 1933.

iPrice, J. Ec. Ent. 27: 69-72, 1934.

Westover & Enlow, USDA FB 1677: 17-18, 1932.

Hort. n.s. 10: 362, 1932.

Larina

nCurran, Fam. & Genera of North Amer. Diptera: 230, 1934.

Lead arsenate, see Insecticides—Lead arsenate; Spray materials—Lead arsenate; also under major insect pests subhead Lead arsenate

Lead boring insects

iRendell, P. Ent. Soc. Wash. 32: 104-113, 1930.

Lead cable borer, see *Scobicia declivis

Lead cable insects

Rendell, Electric Light & Power, 8; Sec. 1 (12): 70-74, 1930.

Leaf and stem eelworm, see *Anguillulina dipsaci*

Leaf crumpler, see *Mineola indigenella

Leaf-cutter ant, see *Atta sexdens*

Leaf-feeding insects

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 40-48, 1931.

iCory & Langford, Md. Ext. Serv. B. 68: 1-5, 1933.

Foster, N.H. For. Comm. Bien. R. f. 1930: 114-119.

***Leaf-footed bug, see *Leptoglossus phyllopus* (L.)**

†Leafhoppers

nBeamer, Can. Ent. 66: 16-18, 1934.

Beard, Amer. Boys' Bk. Bugs: 280-288, 1932.

Bourne, Mass. Ext. Leaf. 20 rev.: 23, 1933.

Buys, J. N.Y. Ent. Soc. 39: 139-143, 1931.

Connor, N.J. C. 258: 20-21, 1932.

Cooper, Ky. R. 44: 34, 1931; R. 45 Pt. 1: 55-56, 1933; R. 46 Pt. 1: 43-44, 1934.

Davis, Ind. Ext. B. 186: 117-118, 1932.

DeLong, Ohio Veg. Grow. Assoc. P. 15: 37-41, 1930.

Eddy, Ky. St. Hort. Soc. Trans. 77: 82, 1932.

Garman, Conn. B. 349: 433-434, 1933.

- Gilbert & Popenoe, USDA FB 1371
rev.: 4, 1930.
- Hamilton, J. Ec. Ent. 25: 304-311, '32.
- Hamilton, B. Amer. Dahlia Soc. 9(64):
14, 1933.
- Huntington, Gard. Club Amer. B. Ser.
4(24): 116, 1932.
- iKelsheimer, Ohio J. Sci. 32: 85-94, '32.
- iKnowlton, Can. Ent. 66: 164-168, '34.
- Lawson, J. Kans. Ent. Soc. 3: 35-43,
1930; 6: 71, 1933.
- Metcalf, N.C. R. 52: 117, 1929.
- Mulford, Ill. R. 42: 141-142, 1929.
- iMunro & Riddle, N.Dak. C. 42 rev.:
44-45, 1933.
- Osborn, Ann. Ent. Soc. Amer. 23: 687-
720, 1930.
- Osborn, Ohio J. Sci. 32: 513-517, 1932.
- ibOsborn, USDA C. 241, 1932, 34p.
- Regan, Wash. St. Hort. Assoc. P. 25:
134, 1929.
- Schoene, J. Ec. Ent. 24: 177-180, 1931.
- bSchoene Va. B. 283: 11-18, 1932.
- ibSeverin, Hilgardia 7: 171, 1932.
- Smith, J. Kans. Ent. Soc. 5: 84-85, '32.
- Swezey, Hawaiian Sugar Pl. Assoc. P.
50: 123, 1931.
- iTalbert, Amer. Fr. Grow. Mag. 51(12):
5-6, 1931.
- Tissot, Fla. Grow. 39(11): 24-25, 1931.
- Twinn, Ent. Soc. Ont. R. 64: 72, 1933.
- Twinn, Ent. Soc. Ont. R. 65: 120, 1934.
- Wakeland, Ida. St. Hort. Assoc. P. 36:
160, 1931.
- Wilcox, Amer. Cranb. Assoc. P. 60: 13,
16, 1930.
- biWolcott, Ec. Ent. of West Indies: 222-
224, 1933.
- Leafhoppers—Alfalfa**
Marlatt, USDA Ent. R. f. 1931: 31.
Willard, Thatcher & Cutler, Ohio B.
540: 119-126, 1934.
- Leafhoppers—Apples**
biAckerman, USDA TB 263: 1931, 40p.
- biDeLong, J. Ec. Ent. 24: 1214-1222, '31.
Hough, Mountaineer Grow. 4(36): 14-
15, 1933.
- Schoene, J. Ec. Ent. 23: 177-181, 1930.
- Schoene, Va. St. Hort. Soc. P. 36: 145-
149, 1931.
- Midwest Fruitman 5(5): 4, 1931.
- USDA Off. Rec. 10: 348, 1931.
- Leafhoppers—Food plants**
Ball, Ann. Ent. Soc. Amer. 25: 497-
501, 1932.
- Ball, Can. Ent. 64: 251-255, 1932.
- Leafhoppers—Grapes**
Alderman, Minn. Hort. 59: 213, 1931.
Eddy et al., Ky. B. 353: 234-235, 1934.
- Leafhoppers—Nicotine sulphate**
iGilbert & Popenoe, USDA FB 1371
rev.: 5, 1934.
- Leafhoppers and Alfalfa yellows**
Marlatt, USDA Ent. R. f. 1930: 22-23.
- Leafhoppers and Plant disease**
Peck, Amer. Dahlia Soc. B. 56: 52, '31.
- Leaf miners**
Cory & Langford, Md. Ext. Serv. B.
68: 6, 1933.
- iFrost, Sci. Month. 30: 443-449, 1930.
- biFrost, Ann. Ent. Soc. Amer. 24: 396-
404, 1931.
- iWeed, Insect Ways: 67-78, 1930.
- Leaf rollers**
Braman, Mich. St. Hort. Soc. R. 60:
35-38, 1931.
- Brittain, J. Agr. & Hort. 37(8): 12, 26-
30, 1934.
- Friend, Conn. Veg. Grow. Assoc. R. 20:
66-67, 1933.
- Hall, Ent. Soc. Ont. R. 60: 137-139,
1930; R. 64: 21-31, 1933.
- Hitchings, Rur. N.Y. 89: 1007, 1930.
- Tissot, Fla. Grow. 39(11): 24-25, 1931.
- Leaf rollers**
iWeed, Insect Ways: 67-68, 1930.
- Least skipper, see Ancyloxypha numitor**
- Leather beetle, see Dermestes vulpinus**
- Leather jackets, see Tipulidae**
- Lebertia porosa, wolcottii**
nMarshall, Amer. Micros. Soc. Trans.
52: 39-40, 1933.
- Lebistes reticulatus**
Fisher, Amer. Nat. 64: 398-400, 1930.
- Lecanium (Eulecanium) caryae (Hickory
lecanium)**
iMcDaniel, Mich. C.B. 133: 7-8, 1930.
- Lecanium cerasorum Ckll. (Calico scale)***
Serr, Diamond Walnut News 15(4): 9,
1933.
- Lecanium corni Bouché (European fruit
lecanium)***
iBritton, Conn. B. 344: 147, 1933.

- Lecanium corni** Bouché *Cont'd*
 iEssig & Hoskins, Cal. Ext. C. 87: 18-19, 1934.
 iMcDaniel, Mich. C.B. 133: 4-6, 1930.
 iNewcomer, USDA C. 270: 49, 1933.
 iSteinweden, Cal. Agr. Mo. B. 19: 570-571, 1930.
 Van Alstyne, N.Y. (Gen.) C. 134: 9, 1932.
- Lecanium coryli** (Brown soft scale)
 Glendenning, Can. Dept. Agr. C. 77: 1931, 4p.
 Glendenning, Sci. Agr. 13: 405-406, 1933.
 Glendenning, Pac. Sci. Cong. 5, P. 5: 3543-3545, 1934.
 Jones & Hanson, Wash. Ext. B. 180: 6, 1933.
 Leckenby, Wash. St. Hort. Soc. P. 26: 185-186, 1930.
 Lyne, Cal. Dept. Agr. Sp. Pub. 115: 54, 116, 152, 1932.
 Lyne, Cal. Agr. Mo. B. 23: 232, 1934.
 Swaine, Pac. Sci. Cong. 5, P. 5: 3390-3391, 1934.
 iWebster, Northw. Fr. Grow. 3(6): 7, 18, 1931.
- Lecanium excrescens**
 Felt, J. Ec. Ent. 26: 424, 1933.
- Lecanium kunoensis**
 bClausen, Ann. Ent. Soc. Amer. 25: 670-687, 1932.
- Lecanium nigrofasciatum** Perg. (Terrapin scale)*
 Britton, Conn. B. 244: 129, 1933.
 iMcDaniel, Mich. C.B. 133: 6-7, 1930.
 iQuaintance & Siegler USDA FB 1666: 76-77, 1931.
 Sanderson, Ins. Pests Farm. ed. 3: 400-402, 1931.
 iSnapp, USDA FB 1557 rev.: 32, 1931.
- Lecanium numismaticum**, *see* *Toumeyella numismaticum*
- Lecotella cancellata**
 Knull, Ent. News 43: 42, 1932.
- Legislation—Quarantine**, *see* *Quarantine—Legislation*
- Legume bug**, *see* *Lygus hesperus*
- Leichenium variegatum**
 iSt. George, P. Ent. Soc. Wash. 32: 122-123, 1930.
- Leiodes** spp.
 inBrown, Can. Ent. 64, 203-207, 1932.
- Leiognathus bacoti**, *see* *Liponyssus bacoti*
- Leiopus dozieri**, *infuscatus*
 nFisher, PUSNM 80(22): 84-87, 1932.
- Leiopus lateralis**
 Knull, Ent. News 45: 211, 1934.
- Leioscyta humeralis**
 nGoding, J. N.Y. Ent. Soc. 38: 91, 1930.
- Leioscyta pulchella**
 inFunkhouser, J. N.Y. Ent. Soc. 38: 411, 1930.
- Leis conformis** (Chinese ladybeetle)
 Berger, Fla. St. Hort. Soc. P. 45(1): 131-132, 1932.
 Essig, Hist. of Ent.: 287-288, 1931.
 Watson, Cit. Ind. 11(7): 34, 1930.
 Watson & Berger, Fla. Ext. B. 67: 78, 1932.
 Watson & Thompson, Fla. R. f. 1932: 71.
 Watson & Thompson, Fla. Ent. 17: 27-29, 1933.
- Leis dimidiata quindecim-spilota**
 Watson & Thompson, Fla. R. f. 1933: 76-77.
- Lema margineimpressa, melanocephala**
 nSchaeffer, J. N.Y. Ent. Soc. 41: 299-300, 304-305, 1931.
- Lema nigrovittata**
 Krauss, Hawaiian Ent. Soc. P. 8: 389, 1934.
 Schaeffer, J. N.Y. Ent. Soc. 41: 300-301, 1933.
- Lema palustris floridana, simulans**
 nSchaeffer, J. N.Y. Ent. Soc. 41: 300, 1933.
- Lema trilineata** (Oliv.) (Three-lined potato beetle)*
 Britton, Conn. B. 344: 152, 1933.
 iCridle & Handford, Can. Ent. 65: 150-151, 1933.
 nSchaeffer, J. N.Y. Ent. Soc. 41: 301-303, 1933.
- Lemnaphila, L. scotlandae**
 nCresson, Ent. News 44: 229-231, 1933.
- Lemon insects**
 biMoore, J. Ec. Ent. 26: 1140-1161, '33.
 *Leopard moth, *see* *Zeuzera pyrina* (L.)
- Lepadoretus subcostatus**
 inOhaus, J. Wash. Acad. Sci. 23: 478, '33.

- Leperisinus aculeatus** (Ash timber beetle)
McDaniel, Mich. Sp. B. 238: 25, 1933.
- Lepidanthrax** spp.
Curran, Amer. Mus. Nov. 404, 1930, 7p.
- Lepidocyrtus albicans**
Davis, P. Ent. Soc. Wash. 36: 269, '34.
- Lepidocyrtus atropurpureus**
Giovannoli, Bailey, Cave Life of Ky., 233: 1933.
- Lepidocyrtus cyaneus**
Davis, P. Ent. Soc. Wash. 36: 269, 1934
Ingram, Sugar B. 12(12): 5, 1934.
- Lepidocyrtus folsomi**
in Mills, Amer. Mus. Nov. 464: 10-11, 1931.
- Lepidocyrtus immaculatus, inornatus**
in Folsom, Hawaiian Ent. Soc. P. 8: 68-69, 1932.
- Lepidocyrtus lanuginosus**
Thomas, J. Ec. Ent. 27: 203, 1934.
- Lepidocyrtus violentus**
Holloway, Facts about Sugar 27: 65, 1932.
Ingram, Sugar B. 12(12): 4-5, 1934.
Spencer & Stracener, J. Ec. Ent. 23: 680-684, 1930.
- Lepidomys irrenosa**
Van Duzee, Pan-Pac. Ent. 7: 8, 1930.
- Lepidophora acroleuca**
in Painter, Ann. Ent. Soc. Amer. 23: 804-805, 1930.
- Lepidophorus**—Key, *alternatus*, *rainieri*
Van Dyke, Pan-Pac. Ent. 6: 149-151, 1930.
- Lepidothirus**
bi Ferris, Stanford Univ. Pub. Univ. Ser. Biol. Sci. 2: 498-502, 1934.
- Lepidopsallus nyssae**
n Johnston, Bklyn. Ent. Soc. B. 25: 299-300, 1930.
- Lepidoptera**
Browne, Can. Ent. 66: 242-244, 1934.
Cockerell, Bklyn. Ent. Soc. B. 25: 9-10, 1930.
Critchell-Bullock, Can. Field-Nat. 45: 34, 1931.
Grey, Ent. News 45: 35-36, 1934.
Kite, Ent. News 45: 36-39, 1934.
Klots, J. N.Y. Ent. Soc. 40: 385-387, 1932.
Klots, Bklyn. Ent. Soc. B. 28: 203-210, 1933.
Latham, Bklyn. Ent. Soc. B. 28: 198, 1933.
Lemmer, Bklyn. Ent. Soc. B. 27: 177, 1932.
in McDunnough, Can. Ent. 62: 107-117, 1930.
i Metcalf & Flint, Fund. of Ins. Life: 260-293, 1932.
b O'Byrne, Ent. News 44: 57-61, 1933.
Tanner & Davis, Utah Acad. Sci. P. 10: 151-152, 1933.
- Lepidoptera**—Beaver Islands
Moore, Mich. Univ. Mus. Zool. Occ. Papers 214, 1930. 28p.
- Lepidoptera**—California
i Keifer, Cal. Agr. Mo. B. 20: 613-626, 1931.
- Lepidoptera**—Canada
i Gunder, Ent. News 41: 179-182, 1930.
- Lepidoptera**—Collection and preservation
i McNeel, Amer. For. 37: 554-555, 1931.
Pollard, J. N.Y. Ent. Soc. 39: 605-606, 1931.
- Lepidoptera**—Conn.—R.I.—Woodland
Klots, Bklyn. Ent. Soc. B. 26: 57-70, 1931.
- Lepidoptera**—Diurnal
i Comstock & Dammers, So. Cal. Acad. Sci. B. 31: 33-45, 1932.
Davis, So. Cal. Acad. Sci. B. 30: 93, '31.
Hayward, Ent. News 41: 258-261, '30.
Klots, Bklyn. Ent. Soc. B. 25: 147-170, 1930.
McDunnough, Can. Ent. 64: 267-270, 1932: 66: 81-87, 1934.
Van Duzee, Cal. Acad. Sci. P. ser. 4, 21: 139-146, 1933.
- Lepidoptera**—Hawaii
i Swezey, Hawaiian Ent. Soc. P. 8: 197-203, 299-304, 1932.
- Lepidoptera**—Interception
Whitney, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 93, 1931.
- Lepidoptera**—Larvae—Dyar's law
i Forbes, Bklyn. Ent. Soc. B. 29: 146-149, 1934.
- Lepidoptera**—Larvae—Food plants
Jones, B.C. Ent. Soc. P. 30: 25-26, 1933; P. 31: 28-32, 1934.

- Lepidoptera—Larvae—"Spitting" habit**
bPack, J. Ec. Ent. 23: 736-738, 1930.
- Lepidoptera—Metamorphoses**
iComstock & Dammers, So. Cal. Acad. Sci. B. 31: 88-100, 1932.
- Lepidoptera—Mexico**
iHoffmann, Mex. Univ. Nac. Inst. Biol. Anal. 3: 133-148, 1932; 4: 207-307, 1933; 5: 201-207, 1934.
- Lepidoptera—Naming**
Cottle, Ent. News 43: 269-272, 1932.
bKlots, Ent. News 41: 298-302, 324-328, 1930.
Richards, Ent. News 42: 213-216, 1931.
Talbot, Ent. News 42: 80-82, 1931.
- Lepidoptera—Nettling**
biRiley & Johannsen, Med. Ent.: 173-188, 1932.
- Lepidoptera—Nocturnal**
Huard, Nat. Can. 57: 16-20, 38-44, '30.
- Lepidoptera—North American Institutions**
iGunder, Ent. News 41: 1-3, 31-33, 147-152, 215-218, 249-252, 290-295, 313-318, 1930.
- Lepidoptera—Pacific Coast**
Comstock, So. Cal. Acad. Sci. B. 28: 50-58, 1930; B. 29: 22-31, 135-142, 1930; B. 30: 15-20, 88-92, 1931; B. 31: 16-18, 1932; B. 33: 34-38, 1934.
- Lepidoptera—Pacific countries**
Matsumura, Pac. Sci. Cong. 5, P. 5: 3503-3514, 1934.
- Lepidoptera—Races**
Garth, Can. Ent. 64: 217-223, 1932.
Rummel, Bklyn. Ent. Soc. B. 28: 234, 1933.
- Lepidosaphes beckii (Purple scale)***
Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(5): 53, 1931.
Bates, Fla. Ent. 17: 32, 1933.
biClark, Tex. C. 67: 42, 1933.
English, Ala. R. 44: 27, 1933.
Essig, Hist. of Ent.: 148, 1931.
Gardner, J. Ent. & Zool. 26: 32-33, '34.
Heriot, B.C. Ent. Soc. P. 28: 9, 1931.
Mackie, Cal. Agr. Mo. B. 23: 401, 1934.
Pope, Hawaii B. 71: 13-14, 1934.
biQuayle, Cal. B. 542: 35-37, 69-70, '32.
biRohrbaugh, Pl. Physiol. 9: 699, 1934.
iSchultz, La Hacienda, 28: 140, 1933.
Thompson, Fla. R. f. 1932: 71-72; R. f. 1934: 55-56, 84.
- iVolck & Hunt, Cal. Spray Chem. Corp. Res. B. July 1931: 11-12.
iWatson, Tex. Cit. 9(2): 9, 1932.
iWatson & Berger, Fla. Ext B 67: 9-18, 1932.
Wilmot, Fla. R. f. 1934: 69.
Woglum, Cal. Fr. Grow. Exch. B. 8(5): 15, 20, 1931.
Woglum, Cal. Cit. 17: 383, 409, 1932.
biWolcott, Ec. Ent. of West Indies: 391-396, 1933.
Yothers & Miller, Fla. St. Hort. Soc. P. 46: 50, 1933.
Yothers & Miller, Cit. Ind. 15(1): 7, 1934.
- Lepidosaphes ficus (Sign.) (Fig. scale)***
Condit, Cal. Ext. C. 77: 53, 1933.
biLockwood, Cal. Agr. Mo. B. 22: 327, 1933.
iSimmons, Reed & McGregor, USDA C. 157: 56-61, 1931.
Wheeler, Cal. Agr. Mo. B. 19: 377-378, 1930.
- Lepidosaphes gloveri (Glover's scale)***
Mackie, Cal. Agr. Mo. B. 23: 401, 1934.
bQuayle, Cal. B. 542: 37, 1932.
iWatson & Berger, Fla. Ext. B. 67: 23-24, 1932.
- Lepidosaphes halli**
Fleury, Cal. Agr. Mo. B. 23: 287, 1934.
Mackie, Cal. Agr. Mo. B. 23: 396-397, 1934.
J. Ec. Ent. 27: 729, 1934.
- Lepidosaphes halli—Quarantine—Cal.**
Fleury, Cal. Agr. Mo. B. 23: 486-487, 1934.
- Lepidosaphes newsteadi**
Felt, J. Ec. Ent. 26: 424, 1933.
- Lepidosaphes pinnaeformis**
Gardner, J. Ent. & Zool. 26: 29-33, '34.
- Lepidosaphes tubulorum**
bClausen, USDA C. 168: 36, 1931.
- †Lepidosaphes ulmi (L.) (Oyster shell scale)***
iBritton, Conn. B. 344: 76, 1933.
Buckell, Ent. Soc. Ont. R. 60: 32, 1930.
Buckell, B.C. Ent. Soc. P. 28: 14-15, 1931.
Burke, Cal. Agr. Mo. B. 21: 365, 1932.
Caesar, Ont. B. 356: 24-26, 1930.
Chambers & Thompson, Wis. Dept.

- Agr. B. 123: 11-12, 1931; B. 145: 19-20, 1933.
 Crowley, Wash. B. 260: 66-68, 1931.
 iDavis, Ind. Ext. B. 168: 26-27, 1930.
 iDoane, Common Pests: 160-162, 1931.
 iDrake & Guthrie, Iowa Dept. Agr. YB 31: 29, 1931.
 Fluke, Wis. Hort. 23: 202, 1933.
 Hartzell, Conn. Pom. Soc. P. 44: 94-106, 1934.
 Hartzell & Parrott, N.Y. (Gen.) B. 636: 20, 1933.
 Heriot, B.C. Ent. Soc. P. 28: 6-13, '31.
 McDaniel, Mich. Quar. B. 13: 112-114, 1931.
 biMex. Agr. & Fomento, Principales Plagas: 222, 1930.
 iNewcomer, USDA C. 270: 11-12, 1933.
 biO'Kane & Conklin, N.H. TB 40, 1930, 15p.
 iPotter et al, N.H. Ext. B. 47: 41, 1934.
 iQuaintance & Siegler, USDA FB 1270, rev.: 73-74, 1931; FB 1666: 63-64, 1931.
 iRoss, Can. Dept. Agr. B. 129: 47-48, 1930.
 iSanderson, Ins. Pests Farm, ed. 3: 299-300, 1931.
 Sheaffer, Ind. Dept. Conserv. Div. Ent. Pub. 103: 16-17, 1930.
 biSoraci, N.J. Dept. Agr. C. 243: 19-20, 1934.
 Strand, Mont. B. 294: 36, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 72, 1933.
 Cornell Rur. School Leaf, 25(2): 7-10, 1931.
 Standard Oil Co. Tech. Div. B. 141-B: 9-11, 1931.
Lepidosaphes uniloba
 Fullaway, Hawaiian Ent. Soc. P. 7: 340, 1931.
Lepiselaga lepidota
 Dunn, Psyche 41: 172, 1934.
Lepisma domestica, *see* **Thermobia domestica**
Lepisma saccharina L. (Silverfish)*
 iBack, USDA FB 1665, 1931, 5p.
 biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 45-47, 1931.
 iHerrick & Griswold, N.Y. (C.) Ext. B. 202, rev.: 49-51, 1934.
 McComb, Libraries 35: 190, 1930.
 iMarcovitch, Tenn. B. 147: 8, 1933.
 iParks & Jones, Ohio Ext. B. 97 rev.: 27, 1933.
 Pemberton, Hawaiian Ent. Soc. P. 8: 509, 1934.
 biPickwell, Cal. St. Teach. Coll. Insects: 146-147, 1932.
 Ruggles, Minn. Hort. 59: 152, 1931.
 Wallace et al, Ind. Dept. Conserv. R. 14: 58, 1932.
 Watson, Fla. Grow. 38(11): 34, 1930; 40(12): 23, 1932.
Lepisocryptus lanuginosus
 Davis, P. Ent. Soc. Wash. 36: 269, '34.
Leprus interior
 Hebard, Ent. News 44: 234, 1933.
Leptaegialia
 nBrown, Can. Ent. 63: 12-13, 1931.
Leptanilla
 biWheeler, Psyche, 39: 53-58, 1932.
Leptanilla santschi
 nWheeler, Psyche 37: 197-201, 1930.
Leptanilla swani
 binWheeler, Psyche 39: 54-58, 1932.
Leptthemis vesiculosa
 bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 264, 1930.
Leptidea brevipennis
 Linsley, Pan-Pac. Ent. 9: 170, 1933.
 ‡**Leptinotarsa decemlineata** (Say) (Colorado potato beetle)*
 Bailey, Vt. Dept. Agr. B. 42: 12-13, 1934.
 Barber, J. Ec. Ent. 26: 1174-1175, '33.
 iBaribeau, Que. Min. de l'Agr. B. 110: 53, 1932.
 Barrus & Crosby, N.Y. (C.) Ext. B. 238: 26, 1932; Ext. B. 288: 23, 1934.
 iBourne, Mass. Ext. Leaf. 20 rev.: 23, 1933.
 Britton, Conn. B. 344: 150, 1933.
 iCaesar, Ont. Dept. Agr. B. 359: 57-59, 1931.
 iCocks, Conn. (Storrs) Ext. B. 185: 7, 1933.
 Crosby & Chupp, N.Y. (C.) Ext. B. 278: 79, 1934.
 Dean, Ida. Dept. Agr. Bien. R. 6: 13-15, 1930.
 Doane, Common Pests: 206, 1931.
 iDustan, Can. Dept. Agr. Ent. B. 32: 64-65, 1932.

- †*Leptinotarsa decemlineata* *Cont'd*
 bFink, J. Agr. Res. 41: 691-696, 1930;
 45: 471-482, 1932.
 iFlint & Metcalf, Insects Man's Chief
 Competitors: 120-125, 1932.
 iGilbert & Popenoe, USDA FB 1371
 rev.: 34, 1934.
 iHaegele & Wakeland, Ida. Ext. C. 42:
 1932, 8p.
 Hanson, W. Wash. Hort. Assoc. P. 25:
 21-22, 1934.
 iHaseman, Missouri Ext. C. 257: 1-2,
 1930.
 Hewitt, Ont. Dept. Agr. & Expt. Union
 R. 51: 44, 1930.
 Iddings, Ida. B. 197: 36-37, 1933; B.
 205: 42-43, 1934.
 Knowlton, J. Ec. Ent. 25: 134, 1932;
 26: 995, 1933.
 List, Cal. Dept. Agr. Sp. Pub. 115: 116,
 1932.
 biMail & Salt, J. Ec. Ent. 26: 1068-1075,
 1933.
 Marsock, B.C. Dept. Agr. R. 24: 25-I,
 1929.
 iMetzger, Col. B. 412: 87, 1934.
 biMex. Agr. & Fomento. Principales
 Plagas: 167-168, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.: 26,
 1933.
 iPettit, Mich. Ext. B. 117: 14, 1931.
 Pieper, Burlison & Flint, Ill. B. 344:
 271-272, 1930.
 Porter, Tenn. Pl. Dis. Control B. 58:
 15, 1931.
 Richardson & Haas, J. Ec. Ent. 24:
 732-736, 1931.
 iRuggles, Cal. Agr. Mo. B. 19: 208-211,
 1930.
 iSanderson, Ins. Pests Farm, ed. 3: 219-
 222, 1931.
 Smith, Ann. Ent. Soc. Amer. 26: 512,
 1933.
 Twinn, Ent. Soc. Ont. R. 64: 66, 1933;
 R. 65: 115, 1934.
 iWard et al, Ind. Ext. B. 89, ed. 4 rev.:
 20, 1933.
 Watson, Fla. B. 232: 82, 1931.
 Webster, Wash. Ext. B. 186: 3, 1934.
 Wicks, Ida. Dept. Agr. Bien. R. 7: 17,
 1932.
- biWilcoxon & Hartzell, Boyce Thompson
 Inst. Contrib. 3: 1-12, 1931.
- Leptinotarsa decemlineata*—*Quarantine*
 Fleury, Cal. Dept. Agr. Sp. Pub. 119:
 33-34, 1933.
 Fleury, Cal. Agr. Mo. B. 23: 485, 1934.
 Wicks, Cal. Agr. Sp. Pub. 119: 69-72,
 1933.
- Leptobyrsa bradleyi*
 nDrake, Ann. Ent. Soc. Amer. 24: 513,
 1931.
- Leptocera fontinalis*
 iTurner, J. Heredity 22: 35-38, 1931.
- Leptocera (Limosina) opaca*
 nAldrich, PUSNM 81(9): 6-7, 1932.
- Leptocerus* spp.
 inBetten, N.Y. St. Mus. B. 292: 253-263,
 1934.
- Leptocoris trivittatus* (Boxelder bug)*
 Cardon, Utah B. 235: 56, 1932.
 iChambers & Thompson, Wis. Dept.
 Agr. B. 145: 43, 1933.
 Cory, Md. Ext. Serv. News 16(7): 4,
 1932.
 Crosby, J. Ec. Ent. 27: 1196, 1934.
 iHerrick, Rur. N.Y. 92: 621, 1933.
 Hutson, J. Ec. Ent. 25: 1107, 1932.
 Hutson, Mich. R. 47: 214, 1934.
 iJones, Better Homes & Gardens 9(8):
 29, 90, 92-93, 1931.
 iLockwood, Cal. Agr. Mo. B. 18: 768,
 1929.
 McDaniel, Mich. Quar. B. 15: 226-227,
 1933.
 iMunro & Riddle, N.Dak. C. 42 rev.:
 18-19, 1933.
 iNewcomer, USDA C. 270: 28-29, 1933.
 biPayne, J. Morph. 56: 513-531, 1934.
 iRuggles, Minn. Hort. 61: 173-174, '33.
 Spuler, Wash. B. 260: 33, 1931.
- bUsinger, Can. Ent. 66: 98-100, 1934.
 Wallace, Ind. YB f. 1932: 303-304.
 Wallac et al, Ind. Dept. Conserv. R. 14:
 51-52, 1932.
- Leptodictya grandatis*
 nDrake, Ann. Ent. Soc. Amer. 24: 511-
 512, 1931.
- Leptodiridae*
 iHatch, J. N.Y. Ent. Soc. 41: 187-259,
 1933.

- Leptogaster annulatus, atridorsalis**
Bromley, Ohio J. Sci. 34: 164, 1934.
- Leptogaster texanus**
nBromley, Ann. Ent. Soc. Amer. 27: 88, 1934.
- Leptogenys clarki**
binWheeler, Colony-founding among Ants: 81-85, 1933.
- Leptogenys (Lobopelta) darlingtoni**
binWheeler, Colony-founding among Ants: 90-93, 1933.
- Leptogenys falcigera**
Phillips, Hawaiian Pineapple Prod. B. 15: 22, 1934.
- Leptogenys (Lobopelta) neutralis**
bWheeler, Colony-founding among Ants: 85-89, 1933.
- Leptoglossus gonagra**
Leonard, J. Ec. Ent. 24: 765-767, 1931.
Leonard, P.R. Dept. Agr. J. 16: 126, 1932.
- Leptoglossus oppositus**
iSnapp, USDA FB 1557 rev.: 33, 1931.
- Leptoglossus phyllopus (L.) (Leaf-footed bug)***
Bratley, Fla. R. 45: 72, 1931; R. f. 1932: 85-86; R. f. 1933: 77.
Clark, Tex. R. 45: 207, 1932.
iWatson, Fla. B. 232: 81, 1931.
White & Brannon, USDA FB 1712: 5, 1933.
- Leptoglossus phyllopus—Pecan black pit**
biAdair, USDA C. 234: 10-11, 1932.
- Leptoglossus zonatus**
biLockwood, Cal. Agr. Mo. B. 22: 342, 1933.
biQuayle, Cal. B. 542: 53-54, 1932.
- Leptomastidea abnormis**
iCole, J. Ec. Ent. 26: 855-864, 1933.
Dozier, J. Ec. Ent. 25: 990, 1932.
Essig, Hist. of Ent.: 357, 380, 1931.
Smith & Armitage, Cal. B. 509: 20-21, 1931.
Swezey, Hawaiian Ent. Soc. P. 8: 227, 273, 1933.
- Leptomastix abyssinica**
inCompere, Cal. Univ. Pub. Ent. 5: 267-269, 1931.
- Leptopharsa illudens**
Drake, Bklyn. Ent. Soc. B. 25: 25, '30.
- Leptopharsa iridis**
nDrake, Amer. Mus. Nov. 398: 2, 1930.
- Leptopharsa lenatis**
nDrake, Bklyn. Ent. Soc. B. 25: 272, '30.
- Leptopharsa perbona**
nDrake, Amer. Mus. Nov. 398: 2, 1930.
- Leptophlebia, see Paraleptophlebia**
- Leptopsylla musculi**
iEskey, U.S. Pub. Health R. 47: 2197-2200, 1932.
- Leptoschema**
nVan Dyke, Cal. Acad. Sci. Ser. 4, 20: 356-357, 1932.
- Leptoschema discalceatum**
Knull, Ent. News 43: 43, 1932.
- Leptoschema protractum elegans**
nVan Dyke, Cal. Acad. Sci. Ser. 4, 20: 357, 1932.
- Leptostylus collaris**
Knull, Ent. News, 45: 211, 1934.
- Leptostylus falli**
nLinsley, Ent. News 45: 182-183, 1934.
- Leptostylus milleri**
nFisher, PUSNM 80(22): 83-84, 1932.
- Leptostylus plumeoventris**
nLinsley, Pan-Pac. Ent. 10: 109-110, 1934.
- Leptoteleia arndti**
Arndt & Dozier, P.R. Dept. Agr. J. 15: 334-335, 1931.
- Leptothorax (Goniothorax) australis**
nWheeler, Psyche 41: 60-62, 1934.
- Leptothorax foveata**
nSmith, Psyche 41: 211-212, 1934.
- Leptothorax (Goniothorax) peninsularis**
nWheeler, Pan-Pac. Ent. 10: 134-135, 1934.
- Leptothorax pergandei flavus**
Smith, Ent. News 41: 18, 1931.
- Leptothorax sculptiventris**
bWheeler, B. Mus. Comp. Zool. 72(1): 30-31, 1931.
- Leptopypha**
Kiritshenko, Carnegie Mus. Ann. 20: 269-270, 1931.
- Leptura emarginata, lineola**
Knull, Ent. News 45: 209, 210, 1934.
- Leptura nitens 90-91, vagans 91-92, vitata 91**
iGoldman, Trans. Amer. Ent. Soc. 59: 1933.

- Lepturges symmetricus*
nKnull, Ent. News 45: 211, 1934.
- Lepturoides productus*
nKnull, Ent. News 45: 208, 1934.
- Leptus americanus*
nMarcovitch, Tenn. B. 147: 14, 1933.
nParks & Jones, Ohio Ext. B. 97: 33, 1930; B. 97 rev.: 26-27, 1933.
- Leptus autumnalis* (Harvest bug)
nbiOrmsby, Pract. Treat. Dis. Skin ed. 4: 1069-1070, 1934.
- Lepyronia Amyot & Serville*
nDoering, J. Kans. Ent. Soc. 3: 87-91, 1930.
- Lerodea eufala*
nO'Byrne, Bklyn. Ent. Soc. B. 27: 186, 1932.
- Leskiomina jaynesi*
nAldrich, PUSNM 81(9): 17-18, 1932.
nJaynes, USDA TB 363: 10-11, 1933.
- *Lesser apple worm, *see* *Grapholitha prunivora* (Walsh)
- *Lesser budmoth, *see* *Recurvaria nanella*
- *Lesser bulb fly, *see* *Eumerus tuberculatus*
- *Lesser clover leaf weevil, *see* *Hypera nigrostris* (F.)
- *Lesser cornstalk borer, *see* *Elasmopalpus lignosellus* (Zell.)
- Lesser grain borer, *see* *Rhizopertha dominica*
- Lesser house-fly, *see* *Homalomyia canicularis*
- Lesser migratory locust, *see* *Melanoplus mexicanus*
- *Lesser peach borer, *see* *Conopia pictipes*
- Lesser spangled fritillary, *see* *Argynnis aphrodite*
- Lestes—Key**
nKlots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 76-77, 1932.
- Lestes alacer**
nBird, Sci. Month. 36: 374-375, 377, '33.
- Lestes vidua, vigilax**
nByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 267, 1930.
- Lesteva kargilensis**
nCameron, Conn. Acad. Arts & Sci. Mem. 10: 17, 1934.
- Lestinae—Key**
nKlots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 75, 1932.
- Lestodiplosis novangliae**
nFelt, Psyche 40: 113-114, 1933.
- Lestomyia strigipes**
nCurran, Amer. Mus. Nov. 487: 3-4, '31.
- Lethocerus americanus** (Leidy) (Giant water bug)*
nbiDuncan, Cal. St. Teach. Coll. Insects: 81, 1932.
nTrask, Nature Mag. 15: 152, 1930.
nWeed, Insect Ways: 79-82, 1930.
- Lethocerus dilatus, largus, truncatus**
nCumplings, Univ. Kans. Sci. B. 21: 208, 210, 212, 1933.
- Lethocerus uhleri**
nChickering, Mich. Acad. Sci. Pap. 15: 357-360, 1932.
- Lethus, L. maya, oresterus**
nRehn & Rehn, Amer. Ent. Soc. Mem. 8: 37-54, 1934.
- Lettuce insects**
nBailey, Ent. News 44: 15, 1933.
nShaw, J. N.Y. Ent. Soc. 38: 463-467, 1930.
- Leucaspis cockerelli**
nPemberton, Hawaiian Ent. Soc. P. 8: 365, 1934.
- Leucaspis japonica**
nFelt, J. Ec. Ent. 27: 481, 1934.
- Leucochrysa haitiensis**
nSmith, Ann. Ent. Soc. Amer. 24: 812-813, 1931.
- Leucophotis irrorata**
nOtanes, Facts about Sugar, 27: 179, '32.
- Leucopis bella**
nCole, J. Ec. Ent. 26: 862, 1933.
nCurran, Amer. Mus. Nov. 456: 13-14, 1931.
- Leucopocila albofasciata**
nIllingworth, Hawaiian Ent. Soc. P. 7: 466, 1931.
- Leucoptera coffeella**
nLeonard, P.R. Ins. R. f. 1929-30: 117, 1931.
- biWolcott, Ec. Ent. of West Indies: 330-339, 1933.
- Leucostoma aterrima**
nSwezey, Hawaiian Ent. Soc. P. 8: 241-242, 1933.
- Leucotermes flavipes**
nMcDaniel, Mich. C.B. 134: 3-7, 1930.
nMcDaniel, Mich. Sp. B. 214: 39-41, 1931.

- Pettit, Mich. St. Bd. Agr. Ent. R. f.
1929: 12-15.
- Leucothoe spinipecta**
Shoemaker, Amer. Mus. Nov. 598: 8-9,
1933.
- Leucothrips nigripennis**
Hood, Pan-Pac. Ent. 7: 170, 1931.
- Leuctra purcellana**
binNeave, Can. Ent. 66: 2-4, 1934.
- Leudopsis americana**
Tissot, Fla. R. f. 1934: 56.
- Leuronata maculata**
Klyver, Ent. News 43: 34, 1932.
- Levuana iridescens**—Biological control
Muir, Hawaiian Ent. Soc. P. 8: 121-
124, 1932.
Muir, Hawaiian Pl. Rec. 35: 85-87, '31.
- Libellulinae**—Key
Klots, N.Y. Acad. Sci. Sci. Surv. P.R.
14: 25-28, 1932.
- Libethra metae, straminea**
inHebard, Trans. Amer. Ent. Soc. 59: 38-
40, 1933.
- Library insects**
Cressman, J. Ec. Ent. 26: 294-295, '33.
Hoffman, J. Ec. Ent. 26: 293-294, '33.
McComb, Libraries, 35: 190, 1930.
- Libythea bachmani**
Bromley, J. N.Y. Ent. Soc. 42: 363, '34.
Calkins, Ent. News 43: 229, 1932.
- Libythea carinenta**
Nininger, J. Kans. Ent. Soc. 3: 28, '30.
iRoig & Villalba, Rev. de Agr. Cuba
15(4): 33, 1934.
- Lice**
bCook, U.S. Nav. Med. B. 32: 245-246,
1934.
biMatheson, Med. Ent.: 155-159, 1932.
Metcalf, Ill. St. Acad. Sci. Trans. 23:
271, 1931.
iSanderson, Ins. Pests Farm ed. 3: 541-
542, 1931.
- Lice and disease**
bMatheson, Med. Ent.: 159-165, 1932.
Riley & Johannsen, Med. Ent.: 132, '32.
- Lice and Typhus fever**
Sci. News Letter, 21: 154, 1932.
- Lice on birds**
Rayner, Sci. Agr. 12: 307-308, 1932.
- Lice on cattle**
C.D.L., Successful Farm. 31(12): 31,
1933.
- I.S.W., Rur. N.Y. 89: 597, 1930.
iTrippel, Purdue Agr. 27: 22, 1932.
Woodward, Dawson & Miller, USDA
FB 1470 rev.: 30, 1932.
- Lice on domestic animals**
Bishop, USDA YB f. 1931: 326-327.
Davis, Ind. Ext. B. 105 rev.: 4-6, 1933.
iMiller, Purdue Agr. 26: 6, 11, 1931.
Whitehead, J. Agr. & Hort. 38(2): 11,
1934.
- Lice on hogs**
Day, Productive Swine Husbandry ed.
5: 305-307, 1933.
Shealy & Sheely, Fla. B. 236: 51-53,
1931.
- Lice on horses**
iKelsner, Vet. Med. 25: 320-321, 1930.
- Lice on pigeons**
Cook, Country Gentl. 95(5): 121, 1930.
Pac. Rur. Press 120: 422, 1930.
- Lice on poultry**
biBice, Hawaii C. 5: 33-34, 1932.
Buckley & Bunyea, USDA FB 1652
rev.: 58-60, 1933.
Dean, Rur. N.Y. 89: 1048, 1930.
Johnson, Farm J. 58(5): 20, 1934.
iLamon & Kinghorne, Pract. Poult.
Prod. rev.: 329-331, 1930.
Mayo, Fla. Dept. Agr. B. 34 n.s.: 58-
59, 1930.
iMiller, Purdue Agr. 26: 11, 1931.
Monahan, Mass. Ext. Leaf. 28 rev.: 2-
3, 1932.
iPatterson, Vet. Med. 25: 349-350, '30.
Purvis, Breeder's Gaz. 96(4): 28, 1931.
Regenos, Allied Vet. 2(4): 8, 1931.
iRobertson, Can. Dept. Agr. Exp.
Farms C. 80: 1931, 2p.
Sanchez, Rev. Unidas 49(9): 28-29, '33.
iStevenson, Ont. Dept. Agr. B. 363: 12-
17, 1931.
Van Es & Olney, Neb. B. 290: 100-101,
1934.
W.R.G., Farm. Advoc. 66: 57, 1931.
Zumbro, Ohio Farm 165: 804, 1930.
- Lice on sheep**
iHall, USDA FB 1330 rev.: 3-9, 1932.
- Lichen insects**
Larson & Hinman, P. Ent. Soc. Wash.
34: 43-44, 1932.

- Licodia cerberus, grandis**
inRehn, Trans. Amer. Ent. Soc. 56: 365-373, 1930.
- Liesthini**
Blaisdell, Trans. Amer. Ent. Soc. 56: 375-390, 1930.
- Life zones**
Melander, J. N.Y. Ent. Soc. 42: 239-240, 1934.
biTate, Ecology 13: 235-257, 1932.
- Ligaria aberrans**
bRehn, P. Acad. Nat. Sci. Phila. 85: 61-62, 1933.
- Light and insects**
biChapman, Animal Ecology 8: 33, 1931.
biClark, J. Exp. Zool. 58: 31-41, 1931; 66: 311-333, 1933.
iCollins & Nixon, N.Y. (Gen.) B. 583, 1930, 32p.
iCotton, P. Ent. Soc. Wash. 32: 58-59, 1930.
Dolley, J. Exp. Zool. 62: 319-326, 1932.
Headlee, N.J. R. 38: 53-54, 1933.
Hedrick, N.Y. (Gen.) R. 50: 52-53, 1931; R. 51: 62-64, 1932.
iHermes, Hilgardia 7: 263-280, 1932.
biHermes & Ellsworth, J. Ec. Ent. 27: 1056-1059, 1934.
Ladd, N.Y. (Gen.) R. 52: 65-66, 1933.
biLumer, Ohio J. Sci. 32: 231, 1932.
Lutz, Science n.s. 79: 102, 1934.
biMcLeod, Ann. Ent. Soc. Amer. 26: 603-615, 1933.
Matlock, Sci. News Letter 22: 101, '32.
iParrott & Collins, J. Ec. Ent. 27: 370-379, 1934.
Saborsky et al, Kans. Acad. Sci. Trans. 36: 298-300, 1933.
bShull, Amer. Nat. 66: 180-183, 1932.
Torre-Bueno, Bklyn. Ent. Soc. B. 25: 101, 1930.
- Light-producing insects**
iReichard, Nature Mag. 19(1): 26-28, 1932.
- Light traps, see Traps for insects—Light**
- Ligyrodes relictus**
biTravis, Iowa St. Coll. J. Sci. 6: 321-323, 1932.
- Ligyrys gibbosus (Deg.) (Carrot beetle)***
Compton, Ill. C. 391: 40-41, 1932.
iHutson, Mich. R. 47: 221-222, 1934.
- Ligyrys spp.**
Wolcott, Ec. Ent. of West Indies: 125-126, 1933.
- Ligyrys tumulosus—Parasites**
Wolcott, P.R. Univ. J. Agr. 18: 438, 1934.
*Lilac borer, see *Podosesia syringae*
*Lilac leaf miner, see *Gracilaria syringella*
- Lily bulb insects**
bSchopp & Doucette, J. Ec. Ent. 25: 1016-1019, 1932.
- Lima bean insects**
Hodges, Pac. Rur. Press 119: 567, 1930.
Wolcott, P.R. Univ. J. Agr. 18: 429-434, 1934.
*Lima bean pod borer, see *Etiella zinkenella*
*Lima bean vine borer, see *Monoptilota pergratialis*
- Limax agrestis**
Doane, Common Pests: 300-307, 1931.
- Limax maximus (Spotted garden slug)**
iMcDaniel, Mich. Quar. B. 17: 67-68, 1934.
- *Lime-tree looper, see *Erannis tiliaria*
- Limnaphius rhombiscus**
Hiestand, Ind. Acad. Sci. P. 40: 345-346, 1931.
- Limnastis americanus**
inDarlington, Psyche 41: 83-85, 1934.
- Limnebius columbianus**
nBrown, Can. Ent. 64: 5-6, 1932.
- Limnephilus spp.**
inBanks, Psyche 37: 226-227, 1930.
inBetten, N.Y. St. Mus. B. 292: 323-324, 334, 1934.
biHiestand, Physiol. Zool. 4: 256-270, 1931.
- Limnerium alcae**
biSachtleben, Internat. Corn Borer Invest. Sci. R. 3: 49, 105-106, 1930.
- Limnesia spp.**
biMarshall, Wis. Acad. Sci. Trans. 27: 343-346, 1932.
- Limnesiopsis anomala**
biMarshall, Wis. Acad. Sci. Trans. 27: 346, 1932.
- Limnius cryophilus**
inMusgrave, P. Ent. Soc. Wash. 34: 79-81, 1932.
- Limnius subarcticus 241-243, trivittatus 91**
nBrown, Can. Ent. 62: 1930.

- Limnogonus aduncus*
nDrake & Harris, Psyche 39: 110, 1932.
- Limnogonus* spp.
nDrake & Harris, Carnegie Mus. Ann. 19: 236-238, 1930; 23: 205-215, 1934.
- Limnophila kaieturana*
nAlexander, Ann. Ent. Soc. Amer. 23: 733, 1930.
- Limnophila roraima, roraimicola*
inAlexander, Amer. Mus. Nov. 491: 13-14, 1931.
- Limnophila ultima*
Gillmore & Milam, J. Ec. Ent. 27: 290-291, 1934.
- Limnophora* spp.
biHuckett, J. N.Y. Ent. Soc. 40: 25-76, 106-158, 279-338, 1932.
- Limnoria lignorum* ("Gribble")
iEades, Can. Dept. Inter. For. Serv. B. 80: 102, 1932.
- Limnoria* spp.
Finlayson, Can. Dept. Inter. Dir. For. R. f. 1930/1931: 12, 1932.
- Limonia* spp.
inAlexander, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1007-1010, 1930.
Alexander, J. N.Y. Ent. Soc. 38: 109-112, 1930; 39: 109-111, 1931.
inAlexander, Amer. Mus. Nov. 491: 4-12, 1931.
Alexander, P.R. Dept. Agr. J. 16: 363-385, 1932.
nAlexander, Ann. Ent. Soc. Amer. 23: 721-732, 1930; 24: 625-628, 1931; 27: 55-62, 1934.
nAlexander, Bklyn. Ent. Soc. B. 25: 71-72, 1930; B. 26: 178-179, 1931.
iRogers, Fla. Ent. 15: 65-70, 1932.
- Limonium agonus*, see *Limonium ectypus*
- Limonium beutenmuelleri*
bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 351-352, 1932.
- Limonium bicolor*
bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 344-345, 1932.
- Limonium californicus* (Mann.) (Sugar-beet wireworm)*
Essig & Hoskins, Cal. Ext. C. 87: 29, 1934.
Lane, Ida. St. Hort. Assoc. P. 38: 68-73, 1933.
- biLehman, J. Ec. Ent. 25: 949-958, 1932; 26: 1042-1051, 1933.
Thomas, Penn. B. 259: 22, 1930.
- Limonium canus* Lec. (Pacific coast wireworm)*
iLane, Ida. St. Hort. Assoc. P. 38: 68-73, 1933.
iLehman, J. Ec. Ent. 25: 949-958, 1932; 26: 243-252, 1933.
- biMail, J. Ec. Ent. 25: 836-840, 1932.
biWoodworth, Psyche 39: 37-40, 1932.
- Limonium ectypus* (Say) (Eastern field wireworm)*
Lacroix, Conn. B. 326: 419, 1931.
bRawlins, J. Ec. Ent. 27: 309, 1934.
- Limonium fulvipilis seminudus*
nVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 348, 1932.
- Limonium huguenini*
bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 346-347, 1932.
- Limonium insperatus*
nBrown, Can. Ent. 65: 175, 1933.
- Limonium knulli*
nFall, Can. Ent. 65: 229-230, 1933.
- Limonium kuschei* 349-350, *lanei* 350-351, *nebulosus* 345-346
bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 1932.
- Limonium ovatus*
nKnull, Ent. News, 45: 9-10, 1934.
- Limonium pictus*
bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 343-344, 1932.
- Limonium plebejus*
iLacroix, Conn. B. 350: 494-498, 1932.
- Limonium rectangularis*
nFall, J. N.Y. Ent. Soc. 42: 30, 1934.
- Limonium rudis*
nBrown, Can. Ent. 65: 175-176, 1933.
- Limonium* spp.
bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 332-355, 1932.
- Limosia*—Key
Huckett, Trans. Amer. Ent. Soc. 60: 135-149, 1934.
- Limulodes paradoxus*
biPark, Ann. Ent. Soc. Amer. 26: 255-261, 1933.
- Lina*, see *Chrysomela*
- *Linden borer, see *Saperda vestita* Say
Linden lace bug, see *Gargaphia tiliae*

- Lindorus (Rhizobius) lopanthae**
 Cole, J. Ec. Ent. 26: 858, 1933.
 Essig, Hist. of Ent: 297, 1931.
 iFlanders, Ann. Ent. Soc. Amer. 23: 594-596, 1930.
- Linognathus**
 Ferris, Ent. News 45: 85-86, 1934.
- Linognathus ovillus**
 iHall, USDA FB 1330 rev.: 3-4, 1932.
- Linognathus piliferus**
 iHall, USDA C. 338 rev.: 13-15, 1934.
 Hanson, Black Fox Mag. 16(4): 10, '32.
- Linognathus vituli**
 Caler, J. Kans. Ent. Soc. 4: 86-87, '31.
 iPettit, Mich. R. 46: 234, 1933.
 iSmith, J. Kans. Ent. Soc. 5: 74-75, '32.
- Linopodes antennaeipes**
 iGahm, J. Ec. Ent. 23: 744-747, 1930.
 Lambert, USDA C. 251: 27, 1932.
 Marlatt, USDA Ent. R. f. 1930: 31.
 Mumford, Ill. R. 46: 157, 1933.
 bThomas, Penn. B. 270: 34-35, 1931.
- Linopodes mammothia**
 Giovannoli & Bailey, Cave Life of Ky.: 221, 1933.
- Liodora sulcata**
 Weld, P. Ent. Soc. Wash. 32: 142-143, 1930.
- Liopoeum submetallicum**
 Schwarz, J. N.Y. Ent. Soc. 39: 77-79, 1931.
- Liothrips urichi**
 Tillyard, Pac. Sci. Cong. 5, P. 5: 3556, 1934.
- Liothrips vaneeckei**
 Marlatt, USDA Ent. R. f. 1932: 18-19.
 bSchopp & Doucette, J. Ec. Ent. 25: 1016-1019, 1932.
- Liothrips varicornis**
 Bailey, Ent. News 44: 15, 1933.
- Liotingis evidentis**
 nDrake, Bklyn. Ent. Soc. B. 25: 271, '30.
- Liparoscella**
 nHebard, Trans. Amer. Ent. Soc. 59: 56-66, 1933.
- Liparoscels insignis**
 inHebard, Trans. Amer. Ent. Soc. 58: 328-329, 1932.
- Lipeurus aberrans**
 Stoddard, Bobwhite Quail: 316, 1931.
- Lipeurus caponis**
 iBishopp & Wood, USDA FB 801 rev.: 12, 1931.
- Lipeurus clavatus**
 Stoddard, Bobwhite Quail: 316, 1931.
- Lipeurus heterographus** Nitz. (Chicken head louse)*
 iBishopp & Wood, USDA FB 801 rev.: 9-10, 1931.
 iBuckley, USDA FB 1652: 54, 1931.
 iBuckley & Bunyea, USDA FB 1652 rev.: 58-59, 1933.
 Gibson, Sci. Agr. 11: 212-213, 1930.
 iLamon & Kinghorne, Pract. Poult. Prod. rev.: 331-332, 1930.
 iVan Es & Olney, Neb. B. 290: 101, '34.
 biWilson, J. Parasit. 20: 304-311, 1934.
- Lipeurus infuscatus** (Head & neck louse of poultry)
 iPatterson, Vet. Med. 25: 350, 1930.
- Lipeurus polytrapezius**
 Bishopp & Wood, USDA FB 801 rev.: 13, 1931.
 Buckley & Bunyea, USDA FB 1652 rev.: 59, 1933.
- Lipeurus tropicalis**
 nPeters, Ent. News 42: 195-199, 1931.
- Lipeurus volsellus**
 nEwing, P. Ent. Soc. Wash. 32: 119-120, 1930.
- Liponyssus bacoti** (Tropical rat mite)*
 Ewing, P. Ent. Soc. Wash. 34: 14-16, 1932.
 Marlatt, USDA Ent. R. f. 1931: 75.
 iShelmire & Dove, J. Amer. Med. Assoc. 96: 579-581, 1931.
- Liponyssus bacoti and Dermatitis**
 Ormsby, Pract. Treat. Dis. Skin. ed 4: 1056-1057, 1934.
 biShelmire & Dove, J. Amer. Med. Assoc. 96: 579-584, 1931.
- Liponyssus bacoti and Endemic typhus**
 iDove & Shelmire, J. Amer. Med. Assoc. 97: 1506-1511, 1931.
 bDove & Shelmire, J. Parasit. 18: 159-168, 1932.
- Liponyssus bursa** (Tropical fowl mite)
 Brandley, North Amer. Vet. 11(5): 40, 1930.
- Liponyssus pacificus**
 Stoddard, Bobwhite Quail: 322-323, 1931.

Liponyssus sylviarum (Feather mite)

Beaudette, N.J. Hints to Poultrymen
18(10): 2, 1930.

Bishopp & Wagner, J. Ec. Ent. 24: 56-
57, 1931.

iBishopp & Wood, USDA FB 801: 5-7,
1931.

Buckley & Bunyea, YSDA FB 1652
rev.: 62-63, 1933.

Caler, J. Kans. Ent. Soc. 4: 79, 1931.

Call, Kans. Bien. R. 5: 132, 1930.

Lee, Profit. Poultry Manag. ed. 6: 130,
1933.

bMaw, Sci. Agr. 11: 710, 1931.

Rawson, Sci. Month. 39: 509, 1934.

bRayner, Sci. Agr. 12(5): 307-309, 1932.

Whitehead, J. Ec. Ent. 24: 917, 1931.

Lipoptena depressa (Deer louse fly)

Bruce, Can. Vet. Dir. Gen. R. f. 1931:
73.

Dixon, Cal. Fish & Game 20(3/4): 104,
1934.

Lipoptena mazamae

Bequaert, Psyche 38: 191-193, 1931.

Liposcelis divinatorius, *see* **Troctes divinatorius****Lispoides**

Huckett, J. N.Y. Ent. Soc. 40: 50-52,
1932.

Lissonota brunnea

Decker, Iowa Res. B. 143: 345, 1931.

Lissorhoptrus simplex (Rice water weevil)*

Brannen, Ark. B. 297: 71-73, 1934.

Douglass, Rice J. 35: 11-12, 1932.

Ingram & Douglas, La. B. 214, 1930,
8p.

iIsely & Schwardt, Ann. Ent. Soc.
Amer. 23: 149-152, 1930.

Isely & Schwardt, Ark. B. 268: 47-48,
1931.

Isely & Schwardt, J. Ec. Ent. 25: 218-
222, 1932.

biIsely & Schwardt, Ark. B. 299, 1934,
44p.; B. 312: 36-37, 1934.

Schwardt, Ark. B. 280: 43-44, 1932.

Listrochelus duncani

iBarrett, Can. Ent. 65: 129-130, 1933.

Listrochelus juvenilis

nFall, J. N.Y. Ent. Soc. 40: 200-201, '32.

Listrochelus langeri

nChapin, Wash. Biol. Soc. P. 47: 93-94,
1934.

Listrochelus plenus

nFall, J. N.Y. Ent. Soc. 40: 199-200, '32.

Listroderes costirostris (Vegetable weevil)

iEssig & Hoskins, Cal. Ext. C. 87: 35-
36, 1934.

Listroderes obliquus (Vegetable weevil)*

Barre, S.C. R. 46: 70-71, 1933.

biBarrett, Cal. Univ. Pub. Ent. 5(5):
100-103, 1930.

Cory, Md. Agr. Soc. R. 18: 217-218,
1934.

iEssig, Hist. of Ent.: 203-206, 1931.

bEssig, Science n.s. 77: 605-606, 1933.

High, USDA YB f. 1931: 538-539.

Hutchison, Cal. R. f. 1929/1930: 68-69,

1931; R. f. 1930/1931: 71-72, 1932;

R. f. 1931/1932: 64-65, 1933.

Hyslop, J. Ec. Ent. 27: 562-563, 1934.

Jacobsen, Cal. Agr. Mo. B. 19: 829, '30.

iLewis, Cal. Agr. Mo. B. 19: 223-226,
1930.

iLockwood, Cal. Agr. Mo. B. 18: 772,
1929; Mo. B. 19: 22-23, 1930.

iLovell, Cal. B. 546, 1932, 19p.

Marlatt, USDA Ent. R. f. 1930: 33-34;

R. f. 1931: 40-41.

Merrill, Cal. R. f. 1928/1929: 71, 1930.

Moulton, Cal. Agr. Mo. B. 20: 751, 756,
1932.

iWatson, Fla. B. 232: 24, 1931.

bWoodbury, Nat. Cannery Assoc. Bur.

Raw Prod. Res. Mem. Com. Sci.

Res. Jan. 1933, 114.

Listroderes obliquus—Quarantine

Gehlhar, Oreg. Dept. Agr. B. 17: 11-12,
1933.

Ramos, P.R. Dept. Agr. & Com. Inf.

An. Span. ed. f. 1933/1934: 220.

Listronotus latiusculus (Carrot weevil)*

bBuchanan, Bklyn. Ent. Soc. B. 27: 7-8,
1932.

Compton, Ill. C. 391: 41, 1932.

Crosby & Chupp, N.Y. (C.) Ext. B. 206

rev.: 82-83, 1933; B. 278: 67-68, '34.

Hutson, Mich. R. 47: 220, 1934.

Listronotus obliquus, *see* **Listroderes obliquus****Listronotus rudipennis**

Compton, Ill. C. 391: 41, 1932.

- Listrophoroides expansus**
 in Ferris, Bernice P. Bishop Mus. B. 98:
 120-121, 1932.
- Listrus inyoensis**
 nBlaisdell, Can. Ent. 63: 178-180, 1931.
- Listrus vanduzeei**
 in Blaisdell, Trans. Amer. Ent. Soc. 60:
 317-319, 1934.
- Litargus sp.**
 Thomas, J. Ec. Ent. 27: 206, 1934.
- Lithocolletis**, see *Cameraria* and *Phyllonorycter*
- Lithocolletis aberrans**, see *Cameraria aberrans*
- Lithocolletis blanchardella**, see *Phyllonorycter propinquella*
- Lithocolletis intermixta**, see *Phyllonorycter intermixta*
- Lithocolletis malifoliella**, see *Phyllonorycter malifoliella*
- Lithurgus sparganotes**
 Cockerell, Amer. Mus. Nov. 615: 5-6, 1933.
- Litocala sexsignata**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 148-150, 1934.
- Litodonta (?) alpina**
 nBenjamin, Pan-Pac. Ent. 8: 56-57, '31.
- Litomastix floridana**
 iSwezey, Hawaiian Ent. Soc. P. 7: 369-370, 390, 419-421, 1931; P. 8: 8, 1932; P. 8: 370, 1934.
- Litoprosopis coachellae**
 iComstock, So. Cal. Acad. Sci. B. 32: 117-120, 1933.
- Litoscirtus insularis**
 Hebard, Trans. Amer. Ent. Soc. 57: 124, 1931.
- ***Little black ant**, see *Monomorium minimum*
- ***Little housefly**, see *Fannia canicularis* L.
- Little red louse of cattle**, see *Trichodectes scalaris*
- Little silverspot**, see *Brenthis myrina*
- Little sulphur**, see *Eurema euterpe*
- Little Turk curculio**, see *Conotrachelus nenuphar*
- Little wood satyr**, see *Cissia eurytus*
- Lius callimicriformis** 45-46, *hintoni* 42-43, *splendens* 43-45
 nFisher, PUSNM 82(27): 1933.
- Live stock flies**
 iRichardson, Iowa Dept. Agr. YB 32: 31-35, 1932.
- Livestock insects**
 Arenas, Cuba Agr. 1(2): 38, 1934.
 Bishopp, Md. Agr. Soc. R. 15: 412-421, 1931.
 Bishopp, USDA YB f. 1931: 324-327.
 iDavis, Ind. Ext. B. 105 rev., 1933, 8p.
 iDibble, Mich. Quar. B. 15: 219-221, 1933.
 iHall, Cornell Vet. 22: 297-304, 316-317, 1932.
 Hall, Md. Agr. Soc. R. 17: 364-385, '33.
 Hyde, USDA YB f. 1931: 58.
 Lacy, Tex. Live Stock Sanitary Com. R. f. 1933: 33-36, 1934.
 Mitchener, Ent. Soc. Ont. R. 62: 26, 1932.
 iMohler, USDA YB f. 1933: 234-241.
 Mumford, Missouri Ext. C. 302: 42, 1933.
 iSanderson, Ins. Pests Farm, ed. 3: 501-521, 1931.
 iAllied Vet. 3(5): 13, 1932.
- Lixophaga**
 Curran, BAMNH 61: 98-99, 1931.
- Lixophaga diatraeae**
 Holloway, Facts about Sugar 26(2): 70, 84, 1931.
 bScaramuzza, Asoc. Tecn. Azucar. Cuba P. 4: 59-63, 1930; P. 6: 87-91, 1932.
 bScaramuzza, J. Ec. Ent. 23: 999-1004, 1930.
 iScaramuzza, Rev. de Agr. Cuba 14(4): 58-60, 1932.
 Scaramuzza, Facts about Sugar, 28: 102, 1933.
 Wolcott, Ec. Ent. of West Indies: 177-178, 1933.
- Lixophaga fasciata, nigribasis**
 nCurran, BAMNH 61: 100-101, 1931.
- Lixophaga variabilis**
 Hensill, J. Ec. Ent. 26: 603, 1933.
- Lixus concavus Say (Rhubarb curculio)***
 iCaesar, Ont. Dept. Agr. B. 359: 66-67, 1931.
 iMunro & Riddle, N.Dak. C. 42: rev. 49-50, 1933.
 Parks, Ohio Farm 173: 188, 1934.
- Lixus spp.**
 nChittenden, PUSNM 77(18): 1-26, '31.

Lizard—Insect food

bCole, Ann. Ent. Soc. Amer. 25: 638-640, 1932.

bKnowlton, J. Ec. Ent. 27: 998-1004, 1934.

Knowlton & Janes, Utah Acad. Sci. P. 8: 140-142, 1931.

bKnowlton & Janes, J. Ec. Ent. 26: 1011-1016, 1933.

Knowlton & Thomas, Utah Acad. Sci. P. 11: 257-259, 1934.

Lizard tick, see Ixodes ricinus

Lobodiplosis pseudococci

nFelt, J. N.Y. Ent. Soc. 41: 87-89, 1933.

Schmidt, Hawaiian Ent. Soc. P. 8: 360, 1934.

Loboptera thaxteri

inHebard, Ent. News 43: 60-62, 1932.

Lochmaeocles marmoratus—Gregarious habits

Smyth, J. Kans. Ent. Soc. 7: 117-118, 1934.

*Locust borer, see *Cyllene robiniae*

*Locust leaf miner, see *Chalepus dorsalis*

Locustacarus locustae

nEwing, P. Biol. Soc. Wash. 45: 100-101, 1932.

Locustidae, see Acrididae**†Locusts**

iCockerell, Nat. Hist. 32: 404, 1932.

Cockerell, Amer. Nat. 67: 93-96, 1933.

Cockerell, Science n.s. 79: 481, 1934.

Dampf, Sci. News Letter 18: 61, 1930.

iGuyer, Animal Biology: 219-232, 1931.

Howard, Insect Menace: 306-311, '31.

Lopez, Facts about Sugar 27: 454, 1932.

MacLaren, La Hacienda 25: 144, 1930.

Rivas, Cal. Agr. Mo. B. 23: 238-239, 1934.

bUvarov, Pac. Sci. Cong. 5, P. 5: 3455-3458, 1934.

*Lodgepole needle miner, see *Recurvaria milleri*

*Lodgepole sawfly, see *Neodiprion burkei*

Lokonbitsika, see Carteria lacca and Lokonibitsika

Lolanthaspis, L. microconcha

inCockerell & Bueker, Amer. Mus. Nov. 424: 4-5, 1930.

Lonchaea batesi, ceres

nCurran, Amer. Mus. Nov. 534: 10-12, 1932.

Lonchaea corticis

MacAloney, N.Y. St. Col. For. B. 3(1): 52, 1930.

Lonchaea occidentalis

Keifer, Cal. Agr. Mo. B. 19: 579-580, 1930.

Lonchaea spp.

nCurran, Amer. Mus. Nov. 534: 9-12, 1932.

Lonchoptera furcata lacustris

Wilson, J. N.Y. Ent. Soc. 40: 88, 1932.

London School of Hygiene & Trop. Medicine

Franklin, P. Ent. Soc. Wash. 35: 83, 1933.

*Lone star tick, see *Amblyomma americanum*

Long dash, see *Polites mystic*

Long headed flour beetle, see *Latheticus oryzae*

Long-horned grasshopper, see *Conocephalus saltator*

Long-legged mushroom mite, see *Lino-podes antennaeipes*

Long-nosed cattle louse, see *Linognathus (Haematopinus) vituli*

*Long-tailed mealybug, see *Pseudococcus adonidum*

Long-winged grasshopper, see *Dissosteira longipennis*

Longicorn beetle

Rosa, Hawaiian Ent. Soc. P. 7: 375, '31.

iThone, Sci. News Letter, 20: 159, 1932.

Longina vittatus

Cresson, Trans. Amer. Ent. Soc. 56: 312, 1930.

Longistigma caryae

Moznette et al, USDA FB 1654: 40-41, 1931.

Walker, Fla. R. f. 1932, 82-83.

Longitarsus mentaphagus, see *Longitarsus waterhousei*

Longitarsus waterhousei

Skinner, Ind. R. 46: 27, 1933; R. 47: 34, 1934.

Skinner & Coleman, Ind. Ext. R. 22: 51-52, 1933; R. 23: 52, 1934.

Skinner & Reed, Ind. R. 43: 43-44, 1931; R. 45: 36, 1931.

Wallace, Ind. Dept. Conserv. R. 11: 56-67, 1929.

- Lophocateres pusillus**
Back & Cotton, USDA FB 1260 rev.: 30, 1930.
Swezey, Hawaiian Ent. Soc. P. 7: 366, 1931.
- Lophodactylus**
nChamberlin, Can. Ent. 64: 21, 1932.
- Lophodonta ferruginea reducta**
nMcDunnough, Can. Ent. 64: 39, 1932.
- Lophopeltis spp.**
nCurran, Amer. Mus. Nov. 710: 12-15, 1934.
- Lopidea dakota (Caragana leaf bug)**
Gibson, Can. Dept. Agr. B. n.s. 99 rev.: 47, 1934.
- Lopidea usingeri**
nVan Duzee, Pan-Pac. Ent. 9: 96, 1933.
- Losses from insects, see Insects—Losses caused by**
- Low tide billbug, see Calendra setiger**
- Loxa planifrons**
inBarber & Bruner, P.R. Dept. Agr. J. 16: 260-261, 1932.
- Loxandrus nocticolor**
nDarlington, Psyche 41: 91, 1934.
- Loxilobus bantu**
inRehn, P. Acad. Nat. Sci. Phila. 82: 112-115, 1930.
- Loxolomia johnsoni**
nSchaus, Ent. News 43: 155-156, 1932.
- Loxophora dammersi**
nVan Duzee, Pan-Pac. Ent. 10: 101-192, 1934.
- Loxostege commixtalis (Alfalfa webworm)***
iHoerner, Col. St. Ent. C. 58: 1933, 12p.
List, Cal. Agr. Mo. B. 23: 236-237, '34.
iMickel, J. Ec. Ent. 25: 1123, 1932.
Sandsten, Col. R. 46: 15, 1933.
iSmith, J. Kans. Ent. Soc. 7: 49, 1934.
- Loxostege similalis (Garden webworm)***
Brannen, Ark. B. 297: 31, 1934.
Compton, Ill. C. 391: 40, 1932.
iFolsom, USDA FB 1688: 19-20, 1932.
Isely, Ark. B. 268: 46-47, 1931.
iSmith, J. Kans. Ent. Soc. 5: 81-82, '32.
- Loxostege sticticalis (Beet webworm)***
Cridle, Can. Hort. Fr. & Truck ed. 54: 262, 1931.
iDustan, Can. Dept. Agr. Ent. B. 32: 37-38, 1932.
- iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 19, 1934.
- iGilbert & Popenoe, USDA FB 1371 rev.: 13, 1934.
- iMunro & Riddle, N.Dak. C. 42 rev.: 16-17, 1933.
- Strand, Mont. B. 269: 13-15, 1932.
- iStrickland, Alberta Univ. Coll. Agr. Ext. B. 24: 57-58, 1933.
- Twinn, Ent. Soc. Ont. R. 64: 67, 1933; R. 65: 116, 1934.
- *Lubber grasshopper, see Brachystola magna**
- Lucanidae (Stag beetles)**
Benesh, Ent. News 43: 40-41, 1932.
- Lucanus elaphus (Giant stag beetle)***
Knaus, J. Kans. Ent. Soc. 5: 32, 1932.
- Lucerne flea, see Sminthurus viridis**
- Lucilia caesar**
bGlaser, J. Parasit. 16: 137-139, 1930.
McDaniel, Mich. C. B. 144: 14-15, '32.
Ont. Vet. Coll. R. f. 1930: 39, 1931.
- Lucilia graphita**
Bryan, Hawaiian Ent. Soc. P. 8: 3, '32.
- Lucilia macellaria, see Cochliomyia macellaria**
- Lucilia sericata**
bBrannon, J. Parasit. 20: 190-194, 1934.
Michelbacher, Hoskins & Herms, J. Exp. Zool. 64: 109-131, 1932.
- Lucilia sericata—Eggs**
biMelvin, Ann. Ent. Soc. Amer. 27: 406-410, 1934.
- Lucilia sericata—Maggot therapy**
Bishopp, USDA YB f. 1932: 308.
Bishopp & White, P. Ent. Soc. Wash. 33: 325, 1931.
- biFine & Alexander, J. Bone & Jt. Surg. 16: 572-582, 1934.
- Miller, Doan & Wilson, Ohio J. Sci. 32: 1-9, 1932.
- bRobinson, Ann. Ent. Soc. Amer. 26: 270-276, 1933.
- bRobinson, J. Lab. & Clin. Med. 18: 406-412, 1933; 20: 77-85, 1934.
- Stewart, Science n.s. 79: 459-460, 1934.
- bWentworth, Indus. Med. 2: 310-313, 1933.
- White, J. Parasit. 18: 133, 1931; 20: 338-339, 1934.

Lucilia sericata—Nutrition

- biMichelbacher, Hoskins & Herms, J.
Exp. Zool. 64: 109-130, 1932.

Lucilia sericata—Olfactory organs

- biMcIndoo, J. Morph. 56: 445-475, 1934.

Lucilia sericata—Photoreceptive organs

- biEllsworth, Ann. Ent. Soc. Amer. 26:
203-215, 1933.

Lucilia spp. (Greenbottle flies)*

- Buckley, USDA FB 1652: 62, 1931.
Buckley & Bunyea, USDA FB 1652
rev.: 67, 1933.
Mackerras & Freney, J. Exp. Biol. 10:
237-246, 1933.

Lucilia spp.—Chemotropic responses

- Laake, USDA TB 270: 2-10, 1931.

Ludius

- bVan Dyke, Cal. Acad. Sci. P. Ser. 4, 20:
389-444, 1932.

**Ludius aereipennis (Prairie grain wire-
worm)***

- Atkinson, Sci. Agr. 12: 201, 1931.
Strickland, Sci. Agr. 12: 88-91, 1931.
Strickland, Can. Nat. Res. Coun. R.
14: 128-129, 1932.
iStrickland, Alberta Ext. B. 24: 37-38,
1933.

Ludius appressus

- Fall, Bklyn. Ent. Soc. B. 28: 190-192,
1933.

Ludius castanicolor

- Fall, J. N.Y. Ent. Soc. 42: 34-35, 1934

Ludius fulvipes

- Frost, Bklyn. Ent. Soc. B. 25: 41, 1930.

Ludius inflatus (Dry-land wireworm)*

- Cooley, Mont. B. 238: 9-10, 1930.

**Ludius pruinus noxius (Hyslop) (Great
Basin wireworm)***

- iLane, USDA FB 1657: 1-8, 1931.
iWalton, USDA FB 835 rev.: 19, 1931.

Ludius rotundicollis

- Knull, Ent. News 43: 43, 1932.

Ludius rufopleuralis

- nFall, Bklyn. Ent. Soc. B. 28: 188-189,
1933.

Ludius spp.

- bnVan Dyke, Cal. Acad. Sci. P. Ser. 4, 20:
408, 411-435, 1932.

Ludius sulcicollis

- Knull, Ent. News 43: 43, 1932.

Lumber insects

- iHouser, Ohio B. 478: 41-46, 1931.

Luna moth, see Tropaea luna*Luperina stipata**

- biDecker, Iowa Res. B. 125: 125-164, '30.
Decker, Iowa Agr. Res. R. f. 1932: 57.
Pierstorff, Ohio Ext. Serv. Pl. Dis. &
Ins. Notes, 2(2): 2, 1931.

Luperodes lecontei asclepiadis

- nSchaeffer, Can. Ent. 64: 238, 1932.

Lupine pod borer, see Etiella zinckenella**Lycaena hanna**

- Haskin, Ent. News 44: 155-156, 1933.

Lycaena heteronea

- inKlots, Bklyn. Ent. Soc. B. 25: 163-170,
1930.

Lycaena theonus

- Haskin, Ent. News 44: 154-155, 1933.
Wolcott, P.R. Univ. J. Agr. 18: 435,
1934.

Lycaena xanthoides

- Rudkin, Ent. News 44: 97-98, 1933.

Lycaenidae

- Huntington, Amer. Mus. Nov. 611,
1933, 5P.

Lycaenopsis argiolus pseudargiolus

- Saunders, N.Y. St. Mus. Hbk. 13: 187-
189, 1932.

Lycaotella, L. coloradensis, spissipes

- nRoss, Can. Ent. 64: 41-45, 1932.

Lycaotinae

- Ross, Can. Ent. 64: 40-45, 1932.

Lycastrihyncha mexicana

- nCurran, Amer. Mus. Nov. 415: 15-16,
1930.

Lycophotia stricta

- Phipps, Maine B. 356: 163-165, 1930.

**Lycophotia margaritosa saucia (Varie-
gated cutworm)***

- iBade, Gard. Chron. Amer. 35: 128, '31.
iBritton, Conn. B. 360: 479, 1934.
iCompton, Ill. C. 391: 10-11, 1932.
iCook, Minn. Ext. C. 48: 5-6, 1934.
bCrumb, Bklyn. Ent. Soc. B. 27: 85, '32.
McDaniel, Mich. Sp. B. 214: 78-79,
1931.

- Phipps, Maine B. 356: 165-166, 1931.

- iPierstorff, Ohio Ext. Pl. Dis. & Ins.
Notes 2(2): 2, 1931.

Lycophotia occulta

- Phipps, Maine B. 356: 166-167, 1930.

- Lycosidae**
 nGertsch, Amer. Mus. Nov. 693, 1934.
 25p.
 iHerrick, Rur. N.Y. 90: 1152, 1931.
 Newport, Univ. Okla. Biol. Surv. Pub.
 4: 45-47, 1932.
- Lycostomus nigrofumosus**
 nHinton, Can. Ent. 65: 191-192, 1933.
- Lyctidae**
 iVan Dyke, Kofoid, Termites and Ter-
 mite Control: 333-335, 1934.
- Lyctus linearis**
 McDaniels, Mich. C. B. 134: 10-12,
 1930.
 Wallace et al., Ind. Dept. Conserv. R.
 14: 59, 1932.
- Lyctus opaculus**
 Friend, Conn. B. 315: 614, 1930.
 McDaniel, Mich. C. B. 134: 10-12, '30.
- Lyctus planicollis**
 McDaniel, Mich. C. B. 134: 10-12, '30.
- Lyctus spp.**
 iFritz, Timberman 33(5): 49, 1932.
 Houser, Ohio B. 478: 45-46, 1931.
 Marcovitch, Tenn. B. 147: 12-13, 1933.
 biMex. Agr. & Fomento. Principales
 Plagas: 225-226, 1930.
 iParks & Jones, Ohio Ext. B. 97 rev.:
 21-22, 1933.
 Pearson, Amer. Wood-Preserv. Assoc.
 P. 30: 37, 1934.
- Lyctus striatus**, *see* **Lyctus linearis**
- Lydella caffra**, *see* **Lydellina villeneuvei**
- Lydella grisescens**, *see* **Lydella stabulens**
grisescens
- Lydella nigripes**, *pinariarum*
 biDowden, J. Agr. Res. 46: 963-995, '33.
- Lydella senilis**
 iSachtleben, Internat. Corn Borer In-
 vest. Sci. R. 3: 53, 111-112, 1930.
- Lydella stabulens grisescens**
 Breaky, Ann. Ent. Soc. Amer. 24: 43,
 1931.
 Cartwright, USDA C. 289: 3-13, 1933.
 bClark, USDA TB 455: 19-20, 1934.
 Decker, Iowa Res. B. 143: 343-344, '31.
 Edwards, Guam R. f. 1930: 23, 1931.
 Hergula, Internat. Corn Borer Invest.
 Sci. R. 3: 128, 1930.
 iVandenberg, Guam R. f. 1930/1932:
 21-22, 1933.
- Lydellina villeneuvei**
 Townsend, J. N.Y. Ent. Soc. 8: 469,
 1932.
- Lygaeonematus erichsonii** (Larch sawfly)*
 Bailey, Cult. Conifers. North Amer.:
 351, 1933.
 Britton, Conn. B. 344: 122, 1933.
 iGraham, Mich. Acad. Sci. Pap. 11:
 389-397, 1930.
 Graham, Can. Ent. 63: 99-102, 1931.
 Graham, J. For. 29: 199-206, 1931.
 Harrison, Can. Dept. Int. For. Serv. B.
 85: 44-45, 1934.
 Marlatt, USDA Ent. R. f. 1930: 49.
 iPeirson, Field Book of Destruct. For.
 Ins. ed. 2: 12, 1932.
 Strickland, Sci. Month. 39: 262, 1934.
 Swaine, For. Chron. 9(4): 10-11, 1933.
 Twinn, Que. Soc. Prot. Pl. R. 23/24:
 161, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 75, 1933;
 R. 65: 124, 1934.
 Violette, Maine For. Com. R. 19: 64,
 1932.
 iWatson, Can. Dept. Agr. Div. For. Ins.
 Sp. C. 1931: [3p]
- Lygidea**
 Hodgkiss, Penn. St. Hort. Assoc. News
 8: 20, 1931.
- Lygidea mendax** (Apple redbug)*
 Chapman, N.Y. St. Hort. Soc. P. 79:
 203-204, 1934.
 Hartzell & Parrott, N.Y. (Gen.) B. 636:
 21, 1933.
 Ladd, N.Y. (Gen.) R. 52: 66-69, 1933.
 Pettit & Hutson, Mich. C. B. 137: 47-
 48, 1931.
 Potter et al, N.H. Ext. B. 47: 42, 1934.
 iQuaintance & Siegler, USDA FB 1270
 rev.: 12-14, 1931; FB 1666: 69, 1931.
 iRoss, Can. Dept. Agr. B. 129: 49, 1930.
 Twinn, Ent. Soc. Ont. R. 65: 119, 1934.
- Lygocerus triticum**
 bGahan, USDA Misc. Pub. 174: 146, '33.
- Lygranthoea accessa**
 Benjamin, P. Ent. Soc. Wash. 34: 124,
 1932.
- Lygus caryae**
 Caesar, Ont. B. 356: 66, 1930.
 Ross & Putman, Ent. Soc. Ont. R. 64:
 37, 1933.

- Lygus communis Knight (Pear plant bug)***
 iCaesar, Ont. B. 356: 51-52, 1930.
 Gilliatt, Ent. Soc. Ont. R. 60: 7, 1930.
 Pickett, N.S. Fr. Grow. Assoc. R. 70: 54, 1933; R. 71: 40, 1934.
 iRoss, Can. Dept. Agr. B. 129: 49, 1930.
 Twinn, Ent. Soc. Ont. R. 65: 119, 1934.
- Lygus cristatus**
 bMcGarr, J. Ec. Ent. 26: 953-956, 1933.
- Lygus elisus**
 Folsom, USDA FB 1688: 19, 1932.
 Iddings, Ida. B. 197: 35-36, 1933.
 iIddings, Ida. B. 205: 44, 1934.
 biShull, Ida. Res. B. 11, 1933, 42p.
 bShull, J. Ec. Ent. 26: 1076-1079, 1933.
 Shull & Wakeland, J. Ec. Ent. 24: 326-327, 1931.
- Lygus hesperus**
 Iddings, Ida. B. 197: 35-36, 1933.
 biShull, Ida. Res. B. 11, 1933, 42p.
 bShull, J. Ec. Ent. 26: 1076-1079, 1933.
 Shull, Rice & Cline, J. Ec. Ent. 27: 265-269, 1934.
- Lygus invitus**
 Britton, Conn. B. 344: 141, 1933.
- Lygus keiferi**
 nVan Duzee, Cal. Acad. Sci. Ser. 4, 21: 36-37, 1933.
- Lygus lucorum**
 iJohnston, Can. Ent. 66: 231-232, 1934.
 Knight, Ent. News, 41: 47-49, 1930.
- Lygus omnivagus**
 Ross & Putman, Ent. Soc. Ont. R. 64: 37, 1933.
- †Lygus pratensis (L.) (Tarnished plant bug)***
 Bailey, Vt. Dept. Agr. B. 42: 14, 1934.
 Barrus & Crosby, N.Y. (C.) Ext. B. 238: 29, 1932.
 Bartlett, Can. Glad. Soc. B. 7: 77, 1930.
 Beal, N.Y. (C.) Ext. B. 212: 28-29, '32.
 bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 32-33, 1931.
 Betten, N.Y. (C.) R. 45: 119, 1932.
 Britton, Conn. B. 344: 93, 1933.
 Buckell, Ent. Soc. Ont. R. 61: 30, 1931.
 Caesar, Can. Glad. Soc. B. 7: 77-78, 1930.
 iCaesar, Ont. Dept. Agr. B. 359: 17-19, 1931.
 Caesar, Ont. Veg. Grow. Assoc. R. 26: 28-30, 1931; R. 29: 33-36, 1934.
 Caesar, Can. Hort. Fr. ed. 57: 91, 1934.
 Caesar & Ross, Ent. Soc. Ont. R. 60: 19, 1930.
 iCardon, Utah B. 235: 56, 1932; B. 250: 50-51, 1934.
 Christie, Ont. Agr. Coll. R. 59: 106-107, 1934.
 Compton, Ill. C. 391: 39-40, 1932.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 85-86, 1933.
 Dean, Kans. St. Hort. Soc. Bien. R. 40: 146, 1930; R. 42: 141, 1934.
 Deaver, Wash. St. Hort. P. 25: 154-155, 1929.
 iDustan, Can. Dept. Agr. Ent. B. 32: 24, 1932.
 biEwing & McGarr, J. Ec. Ent. 26: 943-953, 1933.
 iFolsom, USDA FB 1688: 18-19, 1932.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 45-46, 1934.
 Hamilton, N.J. R. 52: 238, 1931.
 Hamilton, B. Amer. Dahlia Soc. 9(64): 14, 1933.
 Harned, USDA YB f. 1933: 127.
 Haseman & Johnson, Mo. B. 328: 29, 1933.
 iHaseman & Jones, Mo. B. 342: 19-20, 1934.
 Hill, J. Ec. Ent. 25: 671-678, 1932; 26: 148-150, 1933.
 iHutson, Mich. Sp. B. 244: 20-21, 1933.
 Iddings, Ida. B. 179: 30, 1931.
 Karr, Wash. St. Hort. Soc. P. 28: 67-68, 1932.
 King & Cook, USDA TB 296: 4-5, '32.
 iLacroix, Conn. B. 326: 420-421, 1931; B. 335: 261, 1932; B. 350: 493-494, 1932.
 Ladd, N.Y. (C.) R. 46: 111, 1933.
 biLockwood, Cal. Agr. Mo. B. 22: 327-329, 1933.
 McClintock, Phytopath. 21: 384, 1931.
 iMcDaniel, Mich. Sp. B. 214: 48, 1931.
 MacLeod, N.Y. (C.) R. 44, Pt. 2: 51-52, 1931; R. 46: 111, 1933.
 Marlatt, USDA Ent. R. f. 1933: 5.
 iNewcomer, USDA C. 270: 27-28, 1933.
 Painter, Ent. Soc. Ont. R. 60: 102-107, 1930.
 Post, Amer. Soc. Hort. Sci. P. 28: 396, 1932.

***Lygus pratensis* Cont'd**

Regan, Wash. St. Hort. Assoc. P. 25:
133, 1929.

Rolfs, Wash. St. Hort. Assoc. P. 27: 13-
16, 1931.

biRose et al, USDA Misc. Pub. 168: 47-
48, 1933.

Ross & Putman, Ent. Soc. Ont. R. 64:
38, 1933.

Ruhmann, B.C. Dept. Agr. R. 24: 141,
1930.

iSanderson, Ins. Pests Farm ed. 3: 383-
384, 1931.

iSmith, J. Kans. Ent. Soc. 7: 49, 1934.

Snapp, USDA FB 1557 rev.: 36, 1931.

Sorenson, Utah Acad. Sci. P. 9: 67-70,
1932.

biSorenson, Utah C. 98: 9-11, 1932.

iThompson, Ent. Soc. Ont. R. 64: 43-
47, 1933.

Twinn, Que. Soc. Prot. Pl. R. 23/24:
152, 1932.

Twinn, Ent. Soc. Ont. R. 64: 67, 1933;
R. 65: 120, 1934.

Venables, B.C. Ent. Soc. P. 30: 17-20,
1933.

iWatson, Fla. B. 232: 48-49, 1931.

Webster & Spuler, J. Ec. Ent. 24: 969-
971, 1931.

Weir, Can. Min. Agr. R. f. 1931/1932:
186.

Yothers, Wash. St. Hort. Soc. P. 26:
79-84, 1930.

***Lygus pratensis*—Hibernation**

Lockwood, Cal. Agr. Mo. B. 22: 280,
1933.

iPainter, Que. Soc. Prot. Pl. R. 23/24:
28-31, 1932.

Lygus quercalbae

iCaesar, Ont. B. 356: 66, 1930.

Ross & Putman, Ent. Soc. Ont. R. 64:
37, 1933.

Lygus sallei

Sweet, J. Ent. & Zool. 22: 80-81, 1930.

***Lygus* spp.**

Garman, Conn. B. 349: 453-454, 1933.

biShull, Ida. Res. B. 11, 1933, 42p.

Lynchia albipennis

Bequaert, Cal. Acad. Sci. P. ser. 4, 21:
134-135, 1934.

Lynchia americana

Ferris, Can. Ent. 62: 67, 1930.

***Lynchia hirsuta*—Bird diseases**

biO'Roke, Cal. Univ. Pub. Zool. 36: 11-
19, 1930.

Lynchia intertropica

Ferris, Can. Ent. 62: 69, 1930.

Lynchia nigra

Bequaert, Cal. Acad. Sci. P. ser. 4, 21:
134, 1934.

***Lynchia* spp.**

Bequaert, Psyche 40: 68-82, 1933.

Lype griselda

inBetten, N.Y. St. Mus. B. 292: 229,
1934.

***Lyperosia* and disease—Anthrax, Buffalo plague**

Krijgsman, Pac. Sci. Cong. 5, P. 5:
3358, 1934.

***Lyperosia exigua*—Parasites**

Krijgsman, Pac. Sci. Cong. 5, P. 5:
3359, 1934.

Lypha dubia

bDowden, Ann. Ent. Soc. Amer. 27:
600-601, 1934.

Lyponyssus bacoti

biDove & Shelmire, J. Parasit. 18: 159-
168, 1932.

Lysianopsis alba

iShoemaker, Amer. Mus. Nov. 598: 1-3,
1933.

***Lysiognatha* sp.**

Cushman, P. Ent. Soc. Wash. 36: 262,
1934.

Lysiphlebus testaceipes

Lockwood, Cal. Agr. Mo. B. 18: 767,
1929.

Loftin & Christenson, Internat. Soc.
Sugar Cane Tech. Cong. 4, B. 115
[P. Pt. 2]: 10-11, 1932.

Swezey, Hawaiian Ent. Soc. P. 7: 332,
1931.

Tissot, Fla. R. f. 1934: 56.

Lytogaster angustata

nCresson, Trans. Amer. Ent. Soc. 60:
206, 1934.

Lytopeplus ferrugineus

inHinton & Ancona, Mex. Univ. Nac.
Inst. Biol. Anal. 5: 248, 1934.

***Lytta cardinalis*, eucera**

Smyth, J. Kans. Ent. Soc. 7: 108, 1934.

Lytta nuttalli* (Nuttall's blister beetle)

iDustan, Can. Dept. Agr. Ent. B. 32:
35, 1932.

- Twinn, Ent. Soc. Ont. R. 64: 64, 1933.
Lytta vesicatoria (L.) (Spanish fly)*
 Weiss, J. N.Y. Ent. Soc. 38: 49-51, '30.
- Machilis heteropus**
 iCompton, Ent. News 42: 57-59, 1932.
- Macranillus atomus**
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 24, 1932.
- Macranillus coecus**
 Sharp, Hawaiian Ent. Soc. P. 8: 24, '32.
- Macrobasis hirsutipubescentis, maculifera**
 nMaydell, Trans. Amer. Ent. Soc. 60: 334-336, 1934.
- Macrocentrus aegeriae** 39, *affinis* 42-43
amicroploides 21
 Muesebeck, PUSNM 80(23): 1932.
- †**Macrocentrus ancylivorus**
 Alden, Ga. St. Bd. Ent. B. 75: 19, 1931;
 B. 76: 13-19, 1932; B. 77: 17-18, 24, 1933.
 Alden & Clarke, Ga. St. Bd. Ent. B. 74: 18, 1931.
 Allen, J. Ec. Ent. 24: 309-314, 1931.
 Allen, Mass. Fr. Grow. Assoc. Inc. R. 40: 29-30, 1934.
 Allen & Haeussler, J. Ec. Ent. 25: 1148-1151, 1932.
 Bourne, Mass. B. 293: 32, 1933; B. 305: 33-34, 1934.
 Butler, J. Ec. Ent. 26: 986, 1933.
 Clarke, Ga. St. Bd. Ent. B. 75: 38, 1931; B. 77: 30, 36, 1933.
 Cooper, Ky. R. 45, Pt. 1: 57, 1933.
 biDaniel, N.Y. (Gen) TB 187: 1932, 191p.
 Davis, Ind. Acad. Sci. P. 39: 297, 1930.
 Driggers, N.J. R. 52: 192, 1931.
 biDriggers & Pepper, Ann. Ent. Soc. Amer. 24: 293-301, 1931.
 Eddy & Nettles, S.C. B. 278: 16-18, 1931.
 Flint, Amer. Pom. Soc. P. f. 1929/1930: 46-47.
 Flint, Iowa. St. Hort. Soc. Trans. 65: 96-97, 1930.
 Flint & Chandler, Ill. St. Hort. Soc. Trans. 64: 558, 1930.
 Garman, Conn. Pom. Soc. P. 39: 39-41, 1930.
 Garman, Conn. B. 349: 427-429, 1933.
 Garman, J. Ec. Ent. 26: 330-334, 1933.
- biGarman & Brigham, Conn. B. 356: 69-116, 1933.
- biHaeussler, J. Agr. Res. 41: 365-377, 1930; 45: 79-100, 1932.
 Hedrick, N.Y. (Gen) R. 50: 62-64, 1931; R. 53: 43, 1934.
 Houser, Ohio B. 470: 94-95, 1931.
 Ladd, N.Y. (Gen) R. 52: 61, 1933.
 McConnell, Peninsula Hort. Soc. Trans. f. 1931: 105-108.
 McConnell, J. Ec. Ent. 25: 369, 1932.
- biMcConnell, Md. B. 364: 439-456, 1934.
- Marlatt, USDA Ent. R. f. 1930: 14, R. f. 1931: 6; R. f. 1932: 3.
 Merritt, Mich. Quar. B. 15: 225, 1933.
 Muesebeck, PUSNM 80(23): 32-34, 1932.
 Murrell, Tenn. St. Hort. Soc. P. 25: 22-23, 1930.
- iNeiswander, Amer. Fr. Grow. Mag. 52(3): 5, 20, 1932.
 Neiswander & Vogel, Ohio St. Hort. Soc. P. 65: 126-134, 1932; P. 66: 154-159, 1933.
 Neiswander & Vogel, Amer. Pom. Soc. P. 48: 126-127, 1932.
 Nettles, S.C. R. 44: 68-69, 1931.
 Porter, Ohio St. Hort. Soc. P. 65: 117, 1932.
 Skinner, Ind. Ext. R. f. 1930/1931: 46, Skinner, Ind. R. 46: 28, 1933.
 Skinner & Reed, Ind. R. 44: 31, 1931.
 Stearns & Neiswander, Ohio B. 457: 16, 1930.
- iSteenburgh, Can. Ent. 62: 71-75, 1930.
 Steenburgh, Ent. Soc. Ont. R. 60: 129-130, 1930; R. 61: 62, 64, 1931; R. 62: 66-67, 1932; R. 65: 68-69, 1934.
 Weir, Can. Min. Agr. R. f. 1932: 177.
 White, USDA YB f. 1933: 367.
 Yetter, Mo. St. Hort. Soc. P. f. 1930/1932: 95.
- Macrocentrus ancylivorus—Parasites**
 biGarman & Brigham, Conn. B. 356: 77-78, 1933.
 McConnell, P. Ent. Soc. Wash. 34: 108, 1932.
- Macrocentrus ancylivorus—Rearing**
 iDaniel et al, N.Y. (Gen) B. 635: 22-26, 1934.
- Macrocentrus ancylivorus—Sex ratio**
 Holloway, J. Ec. Ent. 27: 1196, 1934.

- Macrocentrus ancylivorus**—Shipped to France
J. Ec. Ent. 24: 773, 1931.
- Macrocentrus ancylivorus and temperature**
biGarman & Brigham, Conn. B. 356: 88-114, 1933.
- Macrocentrus bradleyi**
nDaniel, Can. Ent. 65: 25-26, 1933.
- Macrocentrus cuniculus**
nWalley, Can. Ent. 65: 260-261, 1933.
- Macrocentrus delicatus**
Butler, J. Ec. Ent. 26: 982-987, 1933.
Driggers, N.J. R. 52: 192, 1931.
McConnell, J. Ec. Ent. 25: 369, 1932.
biMcConnell, Md. B. 364: 440-456, 1934.
Muesebeck, PUSNM 80(23): 46-47, 1932.
Murrell, Tenn. St. Hort. Soc. P. 25: 22-23, 1930.
Neiswander & Vogel, Ohio B. 470: 92, 1931.
Yetter, Mo. St. Hort. Soc. P. f. 1930/1932: 95.
- Macrocentrus exartemae**
nWalley, Can. Ent. 64: 183-184, 1932.
- Macrocentrus gifuensis**
Cartwright, USDA C. 289: 3-13, 1933.
bClark, USDA TB 455: 22, 1934.
Muesebeck, PUSNM 80(23): 20, 1932.
biParker, USDA TB 230, 1931, 63p.
Wishart & Thomas, Ent. Soc. Ont. R. 63: 40-41, 1932.
- Macrocentrus harrisi**
nDeGant, P. Ent. Soc. Wash. 32: 164-165, 1930.
Muesebeck, PUSNM 80(23): 18-19, 1932.
- Macrocentrus pallisteri**
nDeGant, P. Ent. Soc. Wash. 32: 65, '30.
Muesebeck, PUSNM 80(23): 44-45, 1932.
- Macrocentrus spp.**
Garman, Conn. Pom. Soc. P. 44: 24-26, 1934.
Garman & Schread, Ann. Ent. Soc. Amer. 24: 425-426, 1931.
Hutson, Mich. St. Hort. Soc. R. 62: 100-101, 1933.
nMuesebeck, PUSNM 80(23), 1932, 55p.
Nickels, Nat. Pecan Grow. Assoc. P. 30: 60, 1931.
- Parrott, J. Ec. Ent. 25: 358-359, 1932.
- Macrocephalus barberi**
nEvans, Ann. Ent. Soc. Amer. 24: 733-734, 1931.
- Macrocephalus dorannae**
nEvans, Ann. Ent. Soc. Amer. 24: 731-733, 1931.
- Macroductylus angustatus**
Thompson, Fla. R. f. 1932: 72-73.
Watson, Fla. Ent. 15: 70, 1932.
Cit. Ind. 13(10): 22, 24, 1932.
- Macroductylus sp.**
biMex. Agr. & Fomento. Principales Plagas: 60-61, 1930.
- Macroductylus subspinosus (F.) (Rose chafer)***
Beal, N.Y. (C) Ext. B. 220: 27, 1932.
iBritton, Conn. B. 344: 157-158, 1933.
Buckley, USDA FB 1652: 23, 1931.
Chambers & Thompson, Wis. Dept. Agr. B. 123: 58, 1931; B. 145: 68-69, 1933.
Cook & Walker, Va. Truck B. 79: 1063, 1932.
Crosby, Rankin & Mills, N.Y. (C) Ext. B. 306: 22-23, 1934.
Dean, Kans. St. Hort. Soc. Bien. R. 40: 139-140, 1930.
iGarman, Conn. B. 349: 453-454, 1933.
iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 31-32, 1934.
biHartzell & Wilcoxon, Boyce Thompson Inst. Contrib. 4: 107-117, 1932.
biMcDaniel, Mich. Sp. B. 243: 14-15, 1933.
Peter, Gard. Club Amer. B., ser. 4, 12: 97, 1930.
biPettit, Mich. Sp. B. 239: 14-16, 1933.
iPettit & Hutson, Mich. C.B. 137: 29-30, 1931.
iQuaintance & Siegler, USDA FB 1270, rev.: 19-21, 1931; FB 1666: 86-87, 1931.
Ross & Putman, Ent. Soc. Ont. R. 64: 39, 1933.
iSanderson, Ins. Pests Farm, ed. 3: 424-426, 1931.
iSim, USDA C. 334: 5-6, 1934.
Twinn, Ent. Soc. Ont. R. 64: 69, 1933; R. 65: 117, 1934.
- Macroductylus subspinosus and chickens**
Gibson, Sci. Agr. 11: 219-220, 1930.

- Lee, Profit. Poultry Management, ed. 6, rev.: 59, 1933.
 Hoard's Dairyman 75: 593, 1930.
- Macroglossum paluensis**
 Clark, New Eng. Zool. Club P. 13: 46, 1932.
- Macrolaelaps peruvianus**
 inEwing, PUSNM 82(30): 7, 1933.
- Macrolepidoptera**
 Bowman, Can. Ent. 66: 131-132, 1934.
 Gunder, Ent. News 43: 169-175, 236-240, 261-268, 1932.
 Schaffner & Griswold, USDA Misc. Pub. 188, 1934, 160p.
- Macromeigenia owenii, spp.**
 nReinhard, Ent. News 41: 261-264, '30.
- Macromerella**
 nBanks, Amer. Acad. Arts & Sci. P. 69(1): 32, 1934.
- Macromia illinoiensis**
 Williamson, Mich. Univ. Occ. Pap. 240: 29-32, 1932.
- Macromia taeniolata**
 bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 258, 1930.
- Macromischa spp.**
 Aguayo, Bklyn. Ent. Soc. B. 27: 220-223, 1932.
 Aguayo, Psyche 38: 175-183, 1931.
 bWheeler, B. Mus. Comp. Zool. 72(1), 1931, 34p.
- Macronema calliptera**
 inBanks, Psyche 38: 68, 1931.
- Macronema spp.**
 Osgood, J. Allergy 5: 367-372, 1934.
- Macronema zebratum**
 biMorgan & O'Neil, Physiol. Zool. 4: 361-379, 1931.
- Macronoctua onusta (Iris borer)***
 iChambers & Thompson, Wis. Dept. Agr. B. 123: 54-55, 1931; B. 145: 78-79, 1933.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 52, 54, 1934.
 Glenn, Hort. 8: 279, 1930.
 biGriswold, Ann. Ent. Soc. Amer. 27: 545-549, 1934.
 Johnson, Amer. Iris Soc. B. 37: 55, '30.
 Koenig, Flow. Grow. 18: 194, 1931.
 Twinn, Que. Soc. Prot. Pl. R. 23/24: 153, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 68, 1933.
- Wallace, Ind. Dept. Conserv. R. 11: 57-58, 1929.
 Wallace, et al, Ind. Dept. Conserv. R. 14: 56-57, 1932.
- Macronoctua onusta—Parasites**
 Breakey, Ann. Ent. Soc. Amer. 24: 40-44, 1931.
- Macrophthalmothrips helenae, narcissus**
 nHood, P. Biol. Soc. Wash. 47: 76-81, 1934.
- Macrophya spp.**
 Ross, Ann. Ent. Soc. Amer. 24: 119-125, 1931.
- Macrophya trisyllabus**
 Ross, Ann. Ent. Soc. Amer. 24: 126-127, 1931.
 bWill, Penn. Acad. Sci. P. 8: 106-107, 1934.
- Macropodexia**
 nTownsend, J. N.Y. Ent. Soc. 40: 462-463, 1932.
- Macropodina planata**
 Smyth, J. Kans. Ent. Soc. 7: 115, 1934.
- Macropsis spp.**
 iBreakey, Ann. Ent. Soc. Amer. 25: 787-844, 1932.
 Breakey, Ohio St. Univ. Abst. Drs. Disserta. 9: 29-38, 1932.
- Macropsis trimaculata**
 iBreakey, Ann. Ent. Soc. Amer. 25: 828-830, 1932.
 Ross & Putman, Ent. Soc. Ont. R. 64: 38, 1933.
- Macropsis trimaculata & plant diseases**
 biKunkel, Boyce Thompson Inst. Contrib. 5: 19-28, 1933.
 biKunkel, Que. Soc. Prot. Pl. R. 25/26: 30, 1934.
- Macrorileya oecanthi**
 biSmith, Cal. Univ. Pub. Ent. 5(8): 165-172, 1930.
 iSmith, Cal. B. 505: 11-12, 1931.
- Macrosargus cuprarius**
 Keifer, Pan-Pac. Ent. 7: 191, 1931.
- Macrosiphea**
 Hottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 273, 1931.
- Macrosiphina—Key**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 134, 1934.
 biShinji, J. Morph. 51: 381, 1931.

- Macrosiphum ambrosiae**
Miller, J. Ec. Ent. 25: 1203-1206, 1932.
- Macrosiphum anomalae**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 298-301, 1931.
- Macrosiphum artemisiae**
Sweet, J. Ent. & Zool. 22: 84, 1930.
- Macrosiphum asterifoliae**
inStrom, Ann. Ent. Soc. Amer. 27: 619-620, 1934.
- Macrosiphum atripes**
nGillette & Palmer, Ann. Ent. Soc. Amer. 26: 359-360, 1933.
- Macrosiphum aucubae**
inBartholomew, Ann. Ent. Soc. Amer. 25: 723-725, 1932.
- Macrosiphum echinocysti**
inBartholomew, Ann. Ent. Soc. Amer. 25: 718-720, 1932.
- Macrosiphum gei**, see **Macrosiphum (Illinoia) solanifolii**
- Macrosiphum granarium (Kby.) (English grain aphid)***
Miller, J. Ec. Ent. 25: 1203-1206, '32.
Strickland, Alberta Ext. B. 24: 55-56, 1933.
- Macrosiphum idahoensis**
inMiller, Can. Ent. 65: 249-251, 1933.
- Macrosiphum illini**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 309-311, 1931.
- Macrosiphum katonkae**
iGillette & Palmer, Ann. Ent. Soc. Amer. 27: 184, 1934.
- Macrosiphum kickapoo**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 312-314, 1931.
- Macrosiphum kiowanepus**
iGillette & Palmer, Ann. Ent. Soc. Amer. 27: 184-185, 1934.
- Macrosiphum longirostris, mertensiae**
inGillette & Palmer, Ann. Ent. Soc. Amer. 26: 360-362, 1933.
- Macrosiphum mesosphaeri**
inTissot, Fla. Ent. 18: 17-20, 1934.
- Macrosiphum niwanista**
iGillette & Palmer, Ann. Ent. Soc. Amer. 27: 191, 1934.
- Macrosiphum pallens**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 315-316, 1931.
- Macrosiphum pisi**, see **Illinoia pisi**
- Macrosiphum potentillicaulis**
inMiller, Can. Ent. 65: 251-252, 1933.
- Macrosiphum rosae (Rose aphid)***
iCook & Walker, Va. Truck B. 79: 1061-1062, 1932.
iFreeborn, South. Cult. 88(4): 16, 1930;
89(3): 16, 1931; 90(1): 16, 1932.
Watson, Fla. Grow. 39(2): 27, 1931.
- Macrosiphum ruralis**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 321-323, 1931.
- Macrosiphum salviae**
inBartholomew, Ann. Ent. Soc. Amer. 25: 720-721, 1932.
- Macrosiphum sanborni**
iMiller, Penn. Acad. Sci. P. 6: 148-151, 1932.
- Macrosiphum sanguinarium**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 323-325, 1931.
- Macrosiphum schrankii**
Bartholomew, Ann. Ent. Soc. Amer. 25: 727, 1932.
- †Macrosiphum solanifolii (Potato aphid)***
iBaribeau, Que. Min. de l'Agr. B. 110: 54, 1932.
Barrus & Crosby, N.Y. (C.) Ext. B. 238: 29, 1932; Ext. B. 288: 26, 1934.
Beattie, USDA FB 1431 rev.: 20, 1930.
Britton, Conn. B. 344: 150-151, 1933.
iBurdette & Headlee, N.J. C. 311: 5-6, 1934.
iCaesar, Ont. Dept. Agr. B. 359: 62-63, 1931.
Compton, Ill. C. 391: 14-15, 1932.
Dustan, Can. Dept. Agr. Ent. B. 32: 68, 1932.
Folsom, Maine B. 360: 196, 1931.
Gorham & Burnham, Ent. Soc. Ont. R. 65: 89-90, 1934.
Gould, Va. Truck B. 71: 813, 816-818, 1930.
Hanson, W. Wash. Hort. Assoc. P. 25: 23, 1934.
Haseman, Missouri Ext. C. 257: 3-4, 1930.
iHuckett, N.Y. (Gen.) C. 128, 1932. 7p.
McDaniel, Mich. Sp. B. 214: 50, 1931.
biMex. Agr. & Fomento, Principales Plagas: 167, 169, 1930.
Pieper et al., Ill. B. 344: 276, 1930.

- iSanderson, Ins. Pest Farm. ed. 3: 213-215, 1931.
- bShull, Amer. Nat. 66: 180-183, 385-419, 1932.
- Simpson, J. Ec. Ent. 25: 634-639, 1932.
- Stewart & Glasgow, N.Y. (Gen.) C. 119: 1-6, 1931.
- Ward et al., Ind. B. 89, ed. 4 rev.: 20, 1933.
- Young, Phytopath. 22: 31, 1932.
- Young & Morris, Mont. B. 231: 31, '30.
- Macrosiphum solanifolii**—Mosaic of bean
Nelson, Mich. TB 118: 14-15, 1932.
- Macrosiphum solanifolii**—Spinach blight
biHoggan, Phytopath. 23: 447-474, 1933.
- Macrosiphum spp.**
nGould, Va. B. 71: 829-830, 1930.
Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 168-170, 1934.
- Macrosiphum tapuskae, tardae**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 327-331, 1931.
- Macrosiphum tenuicauda**
inBartholomew, Ann. Ent. Soc. Amer. 25: 722-723, 1932.
- Macrosiphum tenuitarsis**
inGillette & Palmer, Ann. Ent. Soc. Amer. 26: 363-364, 1933.
- Macrosiphum wasintae**
iGillette & Palmer, Ann. Ent. Soc. Amer. 27: 200, 1934.
- Macrosiphum zinzalae**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 332-333, 1931.
- Macrosophia, M. papua**
nTownsend, J. N.Y. Ent. Soc. 40: 459-460, 1932.
- Macrotermes natalensis**
Cockerell, Nat. Hist. 32: 403-404, '32.
Strong, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 196-197, 1930.
- Macrothemini**—Key
Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 38, 1932.
- Macrotylus polymonii, vanduzeei**
nKnight, Pan-Pac. Ent. 8: 79-80, 1931.
- Macrovelia hornii**
Blatchley, Trans. Amer. Ent. Soc. 60: 16, 1934.
- Macroxyela, M. bicolor harti, ferruginea**
Ross, Ann. Ent. Soc. Amer. 25: 164-166, 1932.
- Madrasta handlirschi**
iBanks, Psyche 38: 62-63, 1931.
- Maelodrus bryani** 453-454, *dorsalis* 454-455, *rufiventris* 454
nFleutiaux, Hawaiian Ent. Soc. P. 7: 1931.
- Magdalis aenescens** (Bronze apple tree weevil) (Dead bark beetle)
Newcomer, USDA C. 270: 34, 1933.
- Magdalis piceae**
inBuchanan, P. Ent. Soc. Wash. 36: 85-87, 1934.
- Magdalis spp.**
iMcDaniel, Mich. Sp. B. 238: 30-32, 1933.
- Maggot therapy**
Asbury & Flook, J. Med. 13: 126-130, 1932.
Baer, Science n.s. 72(1865 sup.): xii, 1930.
iBaer, J. Bone & Jt. Surg. 13: 438-475, 1931.
Bishopp, USDA YB f. 1932: 206-210.
Bishop & White, P. Ent. Soc. Wash. 33: 235, 1931.
- bCarnazzo, Neb. Med. J. 19: 17-20, '34.
bCausey, Amer. J. Hyg. 15: 276-286, 1932.
- bd'Alessio, Amer. Inst. Homeopathy J. 27: 713-716, 1934.
- bField & Field, New Orleans Med. & Surg. J. 86: 392-396, 1933.
- biFine & Alexander, J. Bone & Jt. Surg. 16: 572-582, 1934.
- biFletcher & Haub, Ohio J. Sci. 33: 101-108, 1933.
Goldstein, Ann. Surg. 93: 953-955, '31.
bGoldstein, J. Bone & Jt. Surg. 13: 476-478, 1931.
Goldstein, Lit. Dig. 111: 16, Oct. 3, 1931.
Goldstein, Sci. News Letter 20: 173, 1931.
Goldstein, Med. Soc. N.J. J. 29: 145-148, 1932.
- iHall, Maine Med. J. 23: 80-85, 1932.
- bHaub & Miller, J. Exp. Zool. 64(1): 51-56, 1932.
- iHewitt, Amer. J. Nurs. 32: 31-38, 1932.
- bHoffman, Assoc. Med. P.R. B. 24: 659-660, 1932.

Maggot therapy Cont'd

- Livingston, J. Amer. Med. Assoc. 98: 1585-1586, 1932.
- biLivingston, U.S. Vet. Adm. Med. B. 9: 1-6, 1932.
- iLivingston & Prince, J. Amer. Med. Assoc. 98: 1143-1152, 1932.
- Lytte, Oreg. Dept. Agr. B. 8: 13, 1932.
- biMcKeever, J. Bone & Jt. Surg. 15: 85-93, 1933.
- Marlatt, USDA Ent. R. f. 1932: 33; R. f. 1933: 42.
- bMartin & Heeks, Ann. Surg. 96: 930-950, 1932.
- bMatheson, Med. Ent.: 403-404, 1932.
- bMiller, Doan & Wilson, Ohio J. Sci. 32: 1-9, 1932.
- Moritz, Rev. Unidas 49(7): 20-22, '33.
- iMurdoch & Smart, U.S. Nav. Med. B. 29: 406-417, 1931.
- Radabaugh, Minn. Med. 17: 477-479, 1934.
- Roberts, Sci. Month. 34: 531-536, '32.
- Robinson, Ann. Ent. Soc. Amer. 26: 270-276, 1933.
- Robinson, J. Lab. & Clin. Med. 18: 411, 1933.
- bRobinson, Amer. J. Surg. 25: 525-529, 1934.
- bRobinson, J. Lab. & Clin. Med. 20: 77-85, 1934.
- bRobinson & Norwood, J. Bone & Jt. Surg. 15: 409-412, 1933.
- biRobinson & Norwood, J. Lab. & Clin. Med. 19: 581-586, 1934.
- Robinson & Simmons, J. Lab. & Clin. Med. 19: 339-343, 683-689, 1934.
- Roger, Soc. Med. d. Hop. Univ. de Que. B. 34: 133-136, 1933.
- iSimmons, J. Ec. Ent. 25: 1191-1193, 1932.
- biSimmons, Amer. J. Surg. 25: 140-147, 1934.
- iSlocum, McClellan & Messer, Penn. Med. J. 36: 570-573, 1933.
- Smyth, Amer. Med. 37 (sup 2.): 9, 22, 24, 1931.
- Stabens, Indus. Med. 2(4): 264-268, 1933.
- iStafford, Sci. News Letter 20: 122-124, 1931.

- Stern, J. Amer. Med. Assoc. 98: 1586, 1932.
- Stewart, Science n.s. 79: 459-460, '34.
- Weil, Nettrour & Rohm, Penn. Med. J. 34: 313-316, 1931.
- biWeil, Simon & Sweadner, Amer. J. Surg. 19: 36-48, 1931.
- bWentworth, Indus. Med. 2: 307-313, 1933.
- White, J. Parasit. 18: 133, 1931; 19: 170, 1932.
- Wilson, Doan & Miller, J. Amer. Med. Assoc. 98: 1149-1152, 1932.
- Maggots—Surgical use—Osteomyelitis, see Maggot therapy**
- ‡**Magicicada septendecim (Periodical cicada)***
- Ballou, Ohio Wkly. Press B. 16(18), 1931.
- Barre, S.C. R. 45: 66, 1932; 46: 70, '33.
- iBeamer, J. Kans. Ent. Soc. 4(3): 53-58, 1931.
- Britton, Conn. B. 349: 447, 1934.
- Chambers, Wis. Hort. 23: 1, 11, 1932.
- Davis, J. N.Y. Ent. Soc. 41: 400, 1933.
- iDoane, Common Pests: 169-171, 1931.
- iDow, Bost. Soc. Nat. Hist. B. 73: 3-5, 1934.
- Flint & Metcalf, Insects Man's Chief Competitors: 112-119, 1932.
- Houser, Ohio Wkly. P.B. 15(51), 1931.
- Hyslop, Science n.s. 73(1901 sup.): 14, 1931.
- iHyslop, Sci. News Letter 19: 357, 1931.
- Pierstorff & Parks, Ohio Ext. Pl. Dis. & Ins. Notes 2(3): 4, 1931.
- iQuaintance & Siegler, USDA FB 1270 rev.: 78-80, 1931.
- iSanderson, Ins. Pests Farm, ed. 3: 303-306, 1931.
- iSnodgrass, Smithsonian. Sci. Ser. 5: 182-225, 1930.
- biSnodgrass, Smithsonian. Misc. Coll. 89(8): 91-105, 1933.
- bWymore, J. Ec. Ent. 27: 885-886, 1934.
- biWilcoxon & Hartzell, Boyce Thompson Inst. Contrib. 5: 115-127, 1933.
- Magicicada septendecim and peach yellows**
- Manns, Del. B. 179: 46, 1932.
- ***Magnolia scale, see Neolecanium cornu-parvum (Thro)**

- Maize billbug**, *see* *Calendra maidis*
Maize stalk borer, *see* *Busseola fusca*
"Mala mala," *see* *Gryllotalpa africana*
Malaccina, M. imitans, rufella
 in Hebard, P. Acad. Nat. Sci. Phila. 81:
 35-37, 1929.
Malachius acutipennis
 Sweet, J. Ent. & Zool. 22: 98, 1930.
Malachius bipustulatus
 iPeña, La Hacienda 25: 74, 1930.
Malachius californicus
 nBarrett, Pan-Pac. Ent. 7: 102, 1931.
Malacosoma americana Fab. (Eastern
 tent caterpillar)*
 Baerg, Ark. B. 257: 54, 1930; B. 268:
 49, 1931.
 Bailey, Vt. Com. Agr. Bien. R. 17: 73,
 1934.
 Brannen, Ark. B. 297: 87-88, 1934.
 Britton, Conn. Pom. Soc. P. 38: 29,
 1929.
 iBritton, Conn. B. 344: 73-74, 1933.
 iCaesar, Ont. B. 356: 33-35, 1930.
 Headlee, N.J. Agr. 16(6): 4, 1934.
 iHeadlee, N.J. B. 579, 1934, 2p.
 iMcDaniel, Mich. Sp. B. 243: 26-28,
 1933.
 Maheux, Nat. Can. 57: 46, 1930.
 Maltais, Que. Pom. & Fr. Grow. Soc. R.
 40: 98, 1933.
 iPettit & Hutson, Mich. C.B. 137: 14-
 16, 1931.
 Potter et al, N.H. Ext. B. 47: 42, 1934.
 iQuaintance & Siegler, USDA FB 1270
 rev.: 42-44, 1931; FB 1666: 37, 70,
 1931.
 bRudolf, J. N.Y. Ent. Soc. 40: 481-488,
 1932.
 Sanderson, Ins. Pests Farm. ed. 3: 331-
 333, 1931.
 iSmith, J. Kans. Ent. Soc. 5: 89, 1932;
 7: 48, 1934.
 iSnodgrass, Smithson. Sci. Ser. 5: 262-
 313, 1930.
 biSoraci, N.J. Dept. Agr. C. 243: 9-11,
 1934.
 Squires, Can. Field-Nat. 44: 185-187,
 1930.
 Twinn, Ent. Soc. Ont. R. 64: 75, 1933;
 R. 65: 125, 1934.
 J. Ec. Ent. 27: 725-726, 1934.
Malacosoma californica (California tent
 caterpillar)*
 Burke, Cal. Agr. Mo. B. 21: 359, 1932.
Malacosoma disstria (Forest tent cater-
 pillar)*
 Bailey, Vt. Com. Agr. Bien. R. 17: 73,
 1934.
 Baker, Wash. St. Hort. Soc. P. 26: 184,
 1930.
 Caesar, Ont. B. 356: 35, 1930.
 bCrowley, Wash. B. 276: 14, 1933.
 List, Cal. Agr. Mo. B. 23: 236, 1934.
 iMcDaniel, Mich. Sp. B. 243: 24-25,
 1933.
 McMillan & King, Ent. Soc. Ont. R.
 60: 28, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.:
 35-36, 1933.
 iPeirson, Field Book of Destruct. For.
 Ins. ed. 2: 18, 1932.
 Pettit & Hutson, Mich. C.B. 137: 16,
 1931.
 biSoraci, N.J. Dept. Agr. C. 243: 11-12,
 1934.
 Twinn, Ent. Soc. Ont. R. 64: 75, 1933;
 65: 125, 1934.
 Urbahns, Cal. Agr. Mo. B. 19: 378,
 1930.
Malacosoma fragilis
 List, Cal. Agr. Mo. B. 23: 236, 1934.
 iLockwood, Cal. Agr. Mo. B. 18: 771-
 772, 1929.
Malacosoma neustria
 bClausen, USDA C. 168: 19, 1931.
Malacosoma pluvialis (Western tent cater-
 pillar)*
 iNewcomer, USDA C. 270: 38-39, 1933.
Malacosoma spp.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.:
 16, 1934.
Malaioecrocuta
 nTownsend, J. N.Y. Ent. Soc. 40: 479,
 1932.
Malaria
 Ashburn, Hygeia 11: 446-449, 469-470,
 1933.
 Benerroch, Amer. J. Hyg. 14: 690-693,
 1931.
 biBoyd, Introd. to Malariology 1930,
 437p.
 Boyd & Stratman-Thomas, Amer. J.
 Trop. Med. 13: 265-271, 1933.

Malaria Cont'd

Deeks, South. Med. J. 23: 417-420, '30.

Howard, Insect Menace: 171-189, '31.

iLePrince, South. Med. J. 24: 407-409, 1931.

Mayne, Sci. Amer. 147: 312-313, 1932.

iMayne & Griffiths, U.S. Pub. Health R. 46: 3107-3115, 1931.

biRussell, Rockefeller Found. R. f. 1932: 66-96.

biRussell, J. Parasit. 19: 215-224, 1933.

biRussell, Rockefeller Found. R. f. 1933: 49-72.

Symes, Amer. Assoc. Med.-Phys. Res. J. 8: 267-268, 1930.

Malaria—Avian

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 21, 1932; P. 20: 72, 1933.

biMason, Rockefeller Found. R. f. 1931: 63-71.

Malaria—Control

iBeeley, Sci. Month. 38: 223-230, 1934.

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 31-32, 1932.

Bishop, South. Med. J. 26: 447-448, 1933.

Chamberlain, 25 Years Amer. Med. Activity, Isth. Panama 1904/1929: 17, 1929.

Coogee, Tex. St. J. Med. 29: 375-378, 1933.

Ferrell, South. Med. J. 24: 451-452, '31.

Krysto, Sci. Amer. 142: 270-272, 1930.

LePrince, South. Med. J. 25: 651-657, 1932.

Stuart, Cal. Pub. Health R. 31: 98-101, 1931.

iWhite, Farm & Ranch 50(7): 2-3, 12, 1931.

U.S. Nav. Med. B. 28: 428-430, 1930.

Malaria—Control—Alabama

Baker, South. Med. J. 24: 452, 469, 1931; 27: 651-652, 1934.

Malaria—Control—Animal barrier

Russell, Science n.s. 78: 101-102, 1933.

Malaria—Control—Arkansas

Garrison, South. Med. J. 24: 453, 1931; 26: 469-470, 1933.

Grayson, South. Med. J. 27: 652, 1934.

Malaria—Control—Cost

LePrince, Amer. J. Pub. Health 21: 378-381, 1931.

Malaria—Control—Cuba

Bustillo, United Fr. Co. Med. Dept. R. 20: 78-79, 1931.

Malaria—Control—Drainage

iClark, South. Med. J. 24: 442-449, '31.

Sci. News Letter 22: 53, 1932.

Malaria—Control—Florida

Hanson, South. Med. J. 26: 471, 1933; 27: 652-653, 1934.

Malaria—Control—Georgia

Abercrombie, Med. Assoc. Ga. J. 23: 403-404, 1934.

Clarkson, South. Med. J. 24: 453-454, 1931; J. 26: 461-465, 470-471, 1933;

J. 27: 653-654, 1934.

iRedfearn & Griffiths, Med. Assoc. Ga. J. 19: 365-369, 1930.

Malaria—Control—Louisiana

Browne, South. Med. J. 26: 471-472, 1933.

O'Hara, South. Med. J. 27: 654-655, 1934.

Malaria—Control—Malaya

Hodgkin, Pac. Sci. Cong. 5, P. 5: 3353-3354, 1934.

Malaria—Control—Medical research

bClark, South. Med. J. 27: 642-644, '34.

Malaria—Control—Mississippi

Boyd, South. Med. J. 24: 454-456, '31.

Hoffman, South. Med. J. 25: 657-662, 1932.

Riley, South. Med. J. 26: 472, 1933; J. 27: 655-656, 1934.

Malaria—Control—Mosquito-proofing

biMeleney & Griffin, South. Med. J. 24: 418-424, 1931.

iMoon, South. Med. J. 24: 434-439, '31.

Malaria—Control—Oklahoma

iBeson & Hassler, South. Med. J. 24: 456-460, 1931.

Malaria—Control—Panama

Clark & Komp., South. Med. J. 25: 642-647, 1932.

iRojas, United Fr. Co. Med. Dept. R. 20: 91-94, 1931.

Malaria—Control—Rural

Williams, South. Med. J. 24: 440-442, 1931.

Malaria—Control—Screening

Barrier, South. Med. J. 25: 662-664, 1932.

- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 28, 1932.
Coogle, Farm & Ranch 51(8): 10, 1932.
iUpton, Farm & Ranch 53(19): 2, 4, '34.
- Malaria—Control—Tennessee**
Bishop, South. Med. J. 24: 460-461, 1931; J. 26: 472-473, 1933; J. 27: 656-657, 1934.
Fullerton, Amer. J. Pub. Health 21: 382-389, 1931.
Meleney & Crabtree, South. Med. J. 27: 552-558, 1934.
- Malaria—Control—Texas**
Anderson, South. Med. J. 24: 461-462, 1931.
- Malaria—Control—Tropics**
Connor, United Fr. Co. Med. Dept. R. 20: 23-25, 1931.
- Malaria—Control—Virginia**
McGinnes, South. Med. J. 26: 473, '33.
- Malaria—Control—World wide**
Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 31-32, 1932.
- Malaria—Entomological research**
Mayne, U.S. Pub. Health R. 47: 1771-1773, 1932.
- Malaria—Epidemiology**
bRiley, Faust & Griffiths, South. Med. J. 27: 452-456, 1934.
- Malaria—Haiti**
Cook, South. Med. J. 25: 521-523, '32.
- Malaria—History**
iWatson, Med. Life 37: 226-245, 1930.
- Malaria—Louisiana (Springfield)**
La. St. Bd. Health Quar. B. 24(4): 2-4, 1933.
- Malaria—Mississippi**
bHoffman, Malaria in Miss. . . . 1932, 16p.
- Malaria—Monkeys**
bTaliaferro, Amer. J. Hyg. 16: 429-449, 1932.
- Malaria—New Mexico**
bBarber & Forbrich, U.S. Pub. Health R. 48: 610-623, 1933.
- Malaria—Plasmochin**
bBaker & Gill, U.S. Pub. Health R. 47: 2245-2250, 1932.
Barber, Rice & Brown, Amer. J. Hyg. 15: 601-633, 1932.
J. Amer. Med. Assoc. 97: 1111, 1931.
- Malaria—Puerto Rico**
Earle & Arbona, Rev. Agr. P.R. 24: 235-239, 1930.
- Malaria—St. Croix epidemic—1931**
Shaw, Science n.s. 76: 566-567, 1932.
- Malaria—Virginia**
Grant, South. Med. J. 24: 462-463, '31.
- Malaria and chickens**
Manwell, Science n.s. 77(1988 sup.): 28, 1933.
- Malaria and clover**
bD'Herelle, Amer. J. Hyg. 16: 609-617, 1932.
- Malaria and paresis**
Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 21-22, 1932.
Harvey, Ind. St. Bd. Health Mo. B. 34: 49-50, 1931.
bKrauss, South. Med. J. 25: 537-541, 1932.
Mayne, South. Med. J. 25: 549-551, 1932; J. 26: 456-458, 1933.
Sci. News Letter 21: 103, 325, 410, '32.
- Malaria and weather conditions**
Shaw, Science n.s. 76: 566-567, 1932.
- Mallocera aureotincta**
nLinsley, Bklyn. Ent. Soc. B. 29: 198-199, 1934.
- Mallochromacartia**
nTownsend, J. N.Y. Ent. Soc. 42: 247, 1934.
- Mallophaga**
Baker, Can. Field-Nat. 45: 189-191, 1931.
Ewing, P. Ent. Soc. Wash. 32: 117-121, 1930.
iFerris, Bernice P. Bishop Mus. B. 98: 53-72, 1932.
bGeist, Ohio J. Sci. 31: 505-509, 1931.
Glover, Ont. Vet. Col. R. f. 1930: 77-78, 1931.
bJellison, Amer. Micros. Soc. Trans. 52(1): 42, 1933.
Mann, N.Y. (C.) R. 44 Pt. 2: 54, 1931.
iPeters, Ann. Ent. Soc. Amer. 24: 583-586, 1931.
biPickwell, Cal. St. Teach. Coll. Insects: 160-162, 1932.
Rawson, Sci. Month. 39: 498, 1934.
Stanford, Can. Ent. 64: 112-113, 1932.
Stoddard, Bobwhite Quail: 315-317, 1931.

Mallophaga Cont'd

- Thompson, Can. Ent. 66: 279-281, '34.
 Whitehead, Que. Soc. Prot. Pl. R. 25/26: 84-87, 1934.
 biWilson, J. Parasit. 20: 304-311, 1934.
- Mallophora acra**
 nCurran, Amer. Mus. Nov. 487: 21, '31.
- Mallophora bomboides**
 bBromley, J. N.Y. Ent. Soc. 38: 170, '30.
- Mallophora bromleyi, fautricoides**
 nCurran, Amer. Mus. Nov. 415: 13-14, 1930.
- Mallophora macquartii**
 iBruner, Rev. de Agr. Cuba 12(4): 11, 1930.
- Mallophora orcina** (Southern bee-killer)
 bBromley, J. N.Y. Ent. Soc. 38: 169-170, 1930.
 Fattig, Can. Ent. 65: 119-120, 1933.
- Mallophorina**
 nCurran, Fam. & Gen. North Amer. Diptera: 183-184, 1934.
- Maltypus marquesansus**
 inBlair, Bernice P. Bishop Mus. B. 98: 243-244, 1932.
- Mamestra chenopodii**, *see* *Scotogramma trifolii*
- Mamestra picta** *see* *Ceramica picta*
- Mammoth Cave fauna**
 biGiovannoli, Bailey, Cave Life of Ky.: 218-241, 1933.
- Man vs. insects**, *see* *Insects vs. man*
- Mancasellus brachyurus Harger** (Water-creess sowbug)*
 Britton, Conn. B. 344: 175, 1933.
- Mancasellus macrourus**
 bMarkus, Trans. Amer. Micros. Soc. 49: 220-236, 1930.
- Mange mite**, *see* *Sarcoptes spp.*
- Mango insects**
 Hayman, Fla. St. Hort. Soc. P. 43: 63-64, 1930.
 iPope, La Hacienda 26: 355, 1931.
 Van Hermann, La Hacienda 25: 332-334, 1930.
 iWolcott, Ec. Ent. of West Indies: 502-512, 1933.
- ***Mango weevil**, *see* *Sternonchetus mangiferae* (F.)
- Mansonina (Rhynchoetaenia) albicosta**
 biDavis, Ann. Ent. Soc. Amer. 26: 619-639, 1933.
- bShannon, P. Ent. Soc. Wash. 36: 108, 1934.
- Mansonina (Rhynchoetaenia) albifera**, *see* *Mansonina chrysonotum*
- Mansonina (Mansonina) amazonensis**
 biShannon, P. Ent. Soc. Wash. 36: 107, 1934.
- Mansonina arribalzagae**
 binShannon, P. Ent. Soc. Wash. 33: 152, 1931; 36: 108-109, 1934.
- Mansonina (Rhynchoetaenia) chrysonotum**
 biDavis, Ann. Ent. Soc. Amer. 26: 280-281, 619-639, 1933.
- Mansonina (Rhynchoetaenia) fasciolata**
 biDavis, Ann. Ent. Soc. Amer. 26: 619-639, 1933.
- biShannon, P. Ent. Soc. Wash. 36: 108, 1934.
- Mansonina (Mansonina) flaveolus**
 bShannon, P. Ent. Soc. Wash. 36: 107, 1934.
- Mansonina fuscopennata**
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 45-46, 1934.
- Mansonina (Mansonina) humeralis** 107-108, indubitans 102
 biShannon, P. Ent. Soc. Wash. 36: 1934.
- Mansonina (Rhynchoetaenia) justamansonina**
 biDavis, Ann. Ent. Soc. Amer. 26: 281-282, 619-639, 1933.
- bShannon, P. Ent. Soc. Wash. 36: 108, 1934.
- Mansonina lynchi**
 binShannon, P. Ent. Soc. Wash. 33: 152, 1931; 36: 109, 1934.
- Mansonina nigricans**
 biGerry, Ann. Ent. Soc. Amer. 25: 43, 1932.
- bShannon, P. Ent. Soc. Wash. 36: 108, 1934.
- Mansonina perturbans**
 Bishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 5, 1933.
- Headlee, N.J. Mos. Exterm. Assoc. P. 18: 53-54, 1931.
- iMail, Mont. B. 288: 45-46, 1934.
- McNeel, Science n.s. 74: 155, 1931.
- McNeel, N.J. Mos. Exterm. Assoc. P. 19: 95-96, 1932.
- Marlatt, USDA Ent. R. f. 1931: 74.
- iStearns, MacCreary & Newhouse, Del. B. 181: 86, 102-106, 1933.

- Twinn, N.J. Mos. Exterm. Assoc. P. 18: 22, 1931.
- Mansonia (Mansonia) pseudotitillans**
bShannon, P. Ent. Soc. Wash. 36: 107, 1934.
- Mansonia spp.—Key**
biShannon, P. Ent. Soc. Wash. 36: 99-110, 1934.
- Mansonia spp.—Larvae**
Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 26, 1932.
- Mansonia titillans**
biGerry, Ann. Ent. Soc. Amer. 25: 42-43, 1932.
bKumm & Frobisher, Amer. J. Trop. Med. 12: 353-357, 1932.
biShannon, P. Ent. Soc. Wash. 36: 102, 1934.
Siler, Panama Canal Health Dept. R. f. 1932: 41-42, 1933.
- Mantidae**
iCockerell, Amer. Mus. Nov. 400, 1930, 5P.
bRehn, P. Acad. Nat. Sci. Phila. 85: 60-63, 1933.
- Mantidae—Chromosomes**
King, J. Morph. 52: 525-533, 1932.
- Mantis religiosa (Praying mantis)**
iBade, Amer. Home 11: 40, 1933.
Haweis, Nature Mag. 21: 285, 1933.
Hutchings, Can. Field-Nat. 48: 97-98, 1934.
iPratt, Nature Mag. 16: 304-306, 1930.
Prelle, Guide to Nature 26: 53-54, 1934; 27: 4, 1934.
iShenton, Nature Mag. 22: 155-158, 1933.
iWoodward, Travel 62(2): 37, 38, 1933.
- Mantis religiosa and sparrow**
iReinbold, Nature Mag. 18: 81, 1931.
- Mantispa brunnea** 123, *interrupta* 124, *sayi* 121-123
bSmith, J. Kans. Ent. Soc. 7: 1934.
- Mantispidae—Key**
Smith, J. Kans. Ent. Soc. 7: 124, 1934.
- Maple bladder gall mite, see Phyllocoptes quadripes**
- *Maple leaf cutter, see Paraclemensia acerifoliella (Fitch)**
- Maple nepticula, see Nepticula sericopeza**
- Maple sesian, see Conopia acerni**
- Mapsidius auspicata**
McBride, Hawaiian Ent. Soc. P. 8: 243, 1933.
- Mapsidius charpentierii**
inSwezey, Hawaiian Ent. Soc. P. 8: 201, 1932.
- Marasмия spp.—Sugar cane**
Wolcott, Ec. Ent. of West Indies: 207-208, 1933.
- Marasмия trapezalia**
Holloway, Facts about Sugar 28(5): 218, 1933.
- Marbenia peculiaris**
inMalloch, PUSNM 78(15): 32, 1931.
- Marcellina piscatoria**
iBryant, Psyche 38: 104, 1931.
- Margaronia, see Diaphania**
- Margaropus, see Boophilus**
- *Margined blister beetle, see Epicauta marginata (F.)**
- Marguerite fly, see Napomyza chrysanthemi**
- Margus repletus**
Pan-Pac. Ent. 9: 99, 1933.
- Marietta busckii**
Dozier, P. Ent. Soc. Wash. 35: 87, '33.
- Marietta carnesi**
Dozier, P. Ent. Soc. Wash. 35: 87-88, '33.
- Marietta graminicola**
Swezey, Hawaiian Ent. Soc. P. 8: 12, 273, 1933.
- Marietta maculatipennis**
nDozier, P. Ent. Soc. Wash. 35: 88-89, 1933.
- Marietta pulchella**
Dozier, P. Ent. Soc. Wash. 35: 87, '33.
- Marine wood-borers**
iEades, Can. Dept. Int. For. Serv. B. 80: 100-103, 1932.
bThiessen, Chem. Markets 32: 325-326, 1933.
- Maritime earwig, see Anisolabis maritima**
- Marmara pomonella Busck (Apple fruit miner)***
biLockwood, Cal. Agr. Mo. B. 22: 336, 1933.
Newcomer, USDA C. 270: 41, 1933.
Quaintance & Siegler, USDA FB 1270 rev.: 24-25, 1931.
- Marmara sp.**
biLockwood, Cal. Agr. Mo. B. 22: 343, 1933.

- Maronetus schwarzi**
Nicolay & Weiss, J. N.Y. Ent. Soc. 42: 195-196, 1934.
- Marquesia, M. major**
nMalloch, Bernice P. Bishop Mus. B. 98: 222-223, 1932.
- Marsh insects**
Hendrickson, Can. Ent. 63: 109-110, 1931.
iPalmer, Cornell Rur. School Leaf. 26 (4): 20-21, 1933.
- Marsipococcus**
inCockerell & Bueker, Amer. Mus. Nov. 424: 7-8, 1930.
- Martarega hondurensis**
nBare, J. Kans. Ent. Soc. 5: 60-61, 1932.
- Maruca testulalis**
Arango, Rev. de Agr. Cuba 11(7): 27, 1930.
iBruner, Agete & Bouclé, Rev. de Agr. Cuba 11(10): 31-36, 1930.
Leonard & Mills, J. Ec. Ent. 24: 466-469, 1931.
Leonard, P.R. Dept. Agr. J. 16: 122, 1932.
Mackie, Cal. Agr. Mo. B. 20: 234-235, 1931.
Mills & Leonard, J. Ec. Ent. 24: 763, 1931.
Swezey, Hawaiian Ent. Soc. P. 7: 484, 1931.
iWolcott, P.R. Dept. Agr. J. 17: 241-255, 1933.
- Maruca testulalis and Lima bean scab**
McCubbin, J. Ec. Ent. 26: 627, 1933.
- Marumba spectabilis**
Clark, New Eng. Zool. Club. P. 13: 43-46, 1932.
- Masaris vespiformis**
Bequaert, J. N.Y. Ent. Soc. 39: 132, 1931.
- Masicera senilis, see Lydella stabulens grisea**
- Masicera seticauda**
nReinhard, Bklyn. Ent. Soc. B. 25: 200-202, 1930.
- Masicera unispinosa**
nReinhard, Bklyn. Ent. Soc. B. 25: 199-200, 1930.
- *Masked hunter, see Reduvius personatus**
- Masoreus (Aepinidius) ciliatus**
inMutchler, Psyche 41: 130-131, 1934.
- Mastogenius subcyaneus crenulatus**
nKnull, Ohio J. Sci. 34: 334, 1934.
- Mastotermes darwiniensis**
Holloway, Facts about Sugar 27: 355, 1932.
- Matta hambletoni**
inCrosby, Bklyn. Ent. Soc. B. 29: 19-23, 1934.
- Matura maculata**
inFunkhouser, J. N.Y. Ent. Soc. 38: 417-418, 1930.
- May beetles, see Phyllophaga spp.**
- Mayflies, see Ephemeridae**
- Mea incudella, yunqueella**
inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 387-388, 1931.
inForbes, P.R. Dept. Agr. J. 15: 387-388, 1931.
- Meadorus lateralis—Male genitalia**
biBaker, Can. J. Res. 4: 202-204, 1931.
- Meadow fritillary, see Brenthis bellona**
- Meadow grasshopper, see Orchelimum vulgare**
- *Meal moth, see Pyralis farinalis L.**
- †Mealybugs**
Auten, Flow. Grow. 19: 328, 1932.
Barreto, Assoc. Tech. Azucar. Cuba P. 5: 132-134, 1931.
Basinger, Cal. Agr. Mo. B. 20: 189-193, 1931.
iBasinger, Cit. Leaves 11(6): 6-9, 17, 1931.
bBasinger, Ann. Ent. Soc. Amer. 27: 17-20, 1934.
bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 24-25, 1931.
Boillot, Mo. St. Bd. Agr. B. 28(2): 29, 1930.
Carter, Pineapple Quar. 1: 94-99, 1931.
Carter & Ito, Pineapple Quar. 1: 169-170, 1931.
Cockerell & Bueker, Amer. Mus. Nov. 441, 1930, 7P.
iDrake & Guthrie, Iowa Dept. Agr. YB 31: 26, 1931.
bGinsburg, J. Ec. Ent. 27: 1186-1188, 1934.
bnLobdell, Ann. Ent. Soc. Amer. 23: 209-236, 1930.
biLockwood, Cal. Agr. Mo. B. 22: 326, 337, 342, 1933.

- McDaniel, Mich. Sp. B. 214: 64-68, 1931.
- Mumford, Ill. R. 46: 159-160, 1933.
- iMunro & Riddle, N.Dak. C. 42 rev.: 51-52, 1933.
- Murphy & Peet, Indus. & Engin. Chem. 25: 638-639, 1933.
- iMyers, J. Ec. Ent. 25: 891-896, 1932.
- iPartlow, Purdue Agr. 28: 34, 1934.
- Skinner, Ind. R. 46: 28, 1933.
- iSmith & Armitage, Cal. B. 509: 3-74, 1931.
- W.C., Pineapple News 4(7): 115-118, 1930.
- Wallace, Ind. Dept. Conserv. R. 11: 53-54, 1929.
- Wallace, Ind. YB f. 1930: 478.
- Watson, Fla. R. f. 1930: 71.
- bWolcott, Ec. Ent. of West Indies: 234-240, 1933.
- Mealybugs—Parasites**
- Dominguez, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1932/1933: 150-151.
- Ryan, Cal. Agr. Mo. B. 20: 201-202, 1931.
- Smith & Armitage, Cal. B. 509: 18-22, 1931.
- Swezey, Hawaiian Ent. Soc. P. 7: 386-387, 1931.
- Mealybugs and ants**
- inBueker, Amer. Mus. Nov. 453, 1931, 3p.
- Mealybugs and cold storage**
- Brown, Cal. Agr. Mo. B. 20: 219-220, 1931.
- Mealybugs and pineapple wilt**
- iIllingworth, J. Ec. Ent. 24: 877-880, 1931.
- *Mealy plum aphid, *see* *Hyalopterus arundinis* (F.)
- Mecas vitticollis**
- Knull, Ent. News 45: 211, 1934.
- Mechanitis limnaea**
- nForbes, J. N.Y. Ent. Soc. 38: 317-318, 1930.
- Mecomycet linearis**
- nFall, Can. Ent. 62: 256-257, 1930.
- Meconemus infuscatus**
- Peirce, PUSNM 77(17): 21-22, 1930.
- Mecoptera**
- biCarpenter, B. Mus. Comp. Zool. 72: 205-277, 1931.
- Carpenter, J. N.Y. Ent. Soc. 39: 405-414, 1931.
- iCarpenter, Psyche 38: 41-55, 1931.
- Carpenter, Bklyn. Ent. Soc. B. 27: 149-151, 1932.
- biSmith, J. Kans. Ent. Soc. 7: 120-145, 1934.
- Medetera aeneiventris**
- Van Duzee, Ent. News 44: 152, 1933.
- Medetera aeneus, see Medetera aeneiventris**
- Medetera albiciliata**
- nVan Duzee, Amer. Mus. Nov. 655: 13, 1933.
- Medetera albitarsis, amplimanus**
- inVan Duzee, BAMNH 61: 182, 184, '31.
- Medetera arctica, n.n.**
- Van Duzee, Ent. News 44: 152, 1933.
- Medetera atrata**
- nVan Duzee, Hawaiian Ent. Soc. P. 8: 344, 1933.
- Medetera bicolor, see Medetera arctica**
- Medetera cilifemorata**
- nVan Duzee, Hawaiian Ent. Soc. P. 8: 344-345, 1933.
- Medetera currani, see Medetera viridiventris**
- Medetera flavicosta**
- nVan Duzee, Amer. Mus. Nov. 521: 11, 1932.
- Medetera hawaiiensis**
- nVan Duzee, Hawaiian Ent. Soc. P. 8: 343, 1933.
- Medetera longimana**
- nVan Duzee, Amer. Mus. Nov. 655: 12, 1933.
- Medetera nigrimanus**
- inVan Duzee, BAMNH 61: 181-182, '31.
- Medetera obesa, see Medetera univittata**
- Medetera orbiculata**
- nVan Duzee, Amer. Mus. Nov. 521: 12, 1932.
- Medetera ovata**
- inVan Duzee, BAMNH 61: 183-184, '31.
- Medetera univittata**
- Van Duzee, Ent. News 44: 151-152, '33.
- Medetera viridiventris**
- Van Duzee, BAMNH 61: 182-183, '31.
- Van Duzee, Ent. News 44: 152, 1933.
- Medical entomology**
- iAshburn, Hygeia 11: 446-449, 469-470, 1933.

Medical entomology *Cont'd*

- biBequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 797-1001, 1930.
- bCecil, Textbook of Med. ed. 3: 507-515, 1934.
- Goldstein, J. Med. Soc. N.J. 29: 145-148, 1932.
- iHoffman, Anal. Univ. Nac. Mex. Inst. de Biol. 1: 135-164, 1930.
- bHoffman, B. Assoc. Med. P.R. 24 (206): 650-662, 1932.
- Howard, Hist. Appl'd Ent.: 465-498, 1930.
- Liggett, J. Amer. Med. Assoc. 96: 1571-1572, 1931.
- biMacDermot, Can. Med. Assoc. J. 31: 408-410, 1934.
- biMatheson, Med. Ent. 1932, 489p.
- biRiley & Johannsen, Med. Ent. 1932, 476p.
- bRobinson, Ann. Ent. Soc. Amer. 26: 270-276, 1933.
- Sanderson, Ins. Pests Farm ed. 3: 530-547, 1931.
- Williams, Sci. Amer. 143: 144, 1930.
- Mediterranean fig scale**, *see* *Lepidosaphes ficus*
- ***Mediterranean flour moth**, *see* *Ephestia kuehniella* Zell.
- ***Mediterranean fruitfly**, *see* *Ceratitidis capitata* Wied.
- Megacerus alternatus**
Swezey, Hawaiian Ent. Soc. P. 7: 361, 1931.
- Megachile spp.** (Leaf-cutter bees)
nCockerell, Psyche 37: 144-146, 1930.
nCockerell, Am. Mus. Nov. 466: 4, 1931; 480: 2-5, 1931; 547: 3-4, 1932.
nCockerell, Bklyn. Ent. Soc. B. 27: 12-15, 1932.
nCockerell, Pan-Pac. Ent. 9: 27-28, '33.
iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 39, 1934.
inMitchell, Trans. Amer. Ent. Soc. 56: 155-305, 1930.
Mitchell, N.C. R. 52: 119-120, 1929; 53: 155-156, 1930; 54: 110, 1931; 56: 83, 1933.
iMitchell, Elisha Mitchell Sci. Soc. J. 47(1): 52-54, 1932.
biMitchell, Trans. Amer. Ent. Soc. 59: 295-362, 1933.
- Rau, Acad. Sci. St. Louis Trans. 28: 219-220, 1934.
- Megaderus stigma**
Rendell, Electric Light & Power 8, Sec. 1(12): 70-74, 1930.
iRendell & Shannon, P. Ent. Soc. Wash. 32: 104-113, 1930.
- Megaleuctra, M. spectabilis**
binNeave, Can. Ent. 66: 4-5, 1934.
- Megalodacne heros**
Smyth, J. Kans. Ent. Soc. 7: 112, 1934.
- Megalomus cubanus**
inBanks, Psyche 37: 188, 1930.
- Megalopsallus atriplicis, latifrons**
bMcGarr, J. Ec. Ent. 26: 953-956, 1933.
- Megalopyge bisessa**
Jones, J. Ec. Ent. 26: 295-296, 1933.
- Megalopyge opercularis** (S. & A.) (Puss caterpillar)*
Riley & Johannsen, Med. Ent.: 175-177, 1932.
iWatson & Berger, Fla. Ext. B. 67: 116-117, 1932.
- Megalostomis anachoreta**
Porter, La Hacienda 29: 288, 1934.
- Megalostomis pyropyga**
Smyth, J. Kans. Ent. Soc. 7: 118-119, 1934.
- Megalothorax incertoides**
inMills, Collembola of Iowa: 85-86, '34.
- Megalothorax minimus**
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 375, 1934.
- Megalothrips picticornis**
Hood, Pan-Pac. Ent. 7: 172, 1931.
- Megamelus proserpina**
Fullaway, Hawaii Bd. Comm. Agr. & For. Bien. R. f. 1930: 78-79, 1931.
Fullaway, Hawaiian Ent. Soc. P. 8: 1-2, 1932.
Judd, Hawaii, R. of Gov. f. 1931: 60.
Hawaiian For. & Agr. 28: 60, 1931.
- Megamelus proserpina—Parasites**
Fullaway, Hawaiian Ent. Soc. P. 8: 29, 1932.
Swezey, Hawaiian Ent. Soc. P. 8: 5, 1932.
- Megametopon violacea**
nCurran, Amer. Mus. Nov. 416: 1-2, 1930.
- Megapenthes spp.**
nBrown, Can. Ent. 65: 140-141, 1933.

- Fall, J. N.Y. Ent. Soc. 42: 15-16, 1934.
 nFleutiaux, Hawaiian Ent. Soc. P. 8: 47-48, 1932; 481-482, 1934.
 Van Dyke, Cal. Acad. Sci. P. ser. 4, 20: 310-319, 1932.
- Megaphasma dentricus** (Giant walking-stick)
 Beamer, J. Kans. Ent. Soc. 5: 28, 1932.
- Megaphragma mymaripenne**
 Dozier, P. Ent. Soc. Wash. 34: 29-30, 1932.
 bPemberton, Hawaiian Ent. Soc. P. 7, 481-482, 1931.
- Megaphthalma wilcoxi**
 nCurran, Amer. Mus. Nov. 682: 11, '33.
- Megarhinus inornatus** (Carnivorous mosquito)
 Pemberton, Hawaiian Ent. Soc. P. 7, 360, 1931.
 Swezey, Pan-Pac. Union B. n.s. 123: 3, May, 1930.
 Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 129-130, 428, 1931.
- Megarhinus septentrionalis**
 Stearns et al., Del. B. 181: 88, 1933.
- Megarhinus sp.**
 biMatheson, Mos. of North Amer.: 204-205, 1929.
- Megarhinus trinidadensis**—Effect of iodine on
 Frobisher & Shannon, Amer. J. Hyg. 13: 620, 1931.
- Megarhyssa atrata**
 iKlugh, Amer. Photography 26: 158, 1932.
 biSnodgrass, Smithsonian. Misc. Coll. 89(8): 112-114, 1933.
- Megarhyssa lunator**
 iAbbott, Bklyn. Ent. Soc. B. 29: 39-41, 1934.
 bAbbott, Psyche 41: 238-240, 1934.
 iKlugh, Amer. Photography 26: 158, 1932.
 Woodbury, Ecol. Monog. 3: 191, 1933.
- Megarhyssa sp.**
 ibAbbott, J. N.Y. Ent. Soc. 42: 127-133, 1934.
- Megaselia (Aphiochaeta) agarici**
 Thomas, J. Ec. Ent. 27: 203, 1934.
- Megaselia (Aphiochaeta) rufipes**
 iKeifer, Cal. Agr. Mo. B. 19: 575, '30.
- Megasoma elephas**
 de la Barreda, Rev. Unidas 48(3): 46-51, 1932.
- Megasterni**
 Blackwelder, Pan-Pac. Ent. 8: 29, 1931.
- Megastigmus specularis**
 nWalley, Can. Ent. 64: 187-188, 1932.
- Megathymus leussleri, mariae**
 nHolland, Carnegie Mus. Ann. 20: 262-265, 1931.
- Megathymus stephensi**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 81-86, 1934.
- Megathymus streckeri**
 Leussler, Ent. News 41: 7-9, 1930.
- Megathymus yuccae**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 87-92, 1934.
 Parks, Bklyn. Ent. Soc. B. 27: 248, '32.
- Megaxyela**
 Ross, Ann. Ent. Soc. Amer. 25: 161-164, 1932.
- Megaxyela avingrata**
 Hamlin, Ann. Ent. Soc. Amer. 25: 163, 1932.
- Megaxyela tricolor**
 Ross, Ann. Ent. Soc. Amer. 25: 162-163, 1932.
- Megilla maculata**
 Curtis, Iowa Res. B. 143: 341, 1931.
 biDitman & Cory, Md. B. 328: 471, '31.
 Otero, Rev. de Agr. Cuba 15(5): 47, '34.
- Megistias ignarius**
 inBell, J. N.Y. Ent. Soc. 39: 526, 1931.
- Megistocera longipennis**
 iAlexander, P.R. Dept. Agr. J. 16: 354, 1932.
- Megistodexia, M. diaristata**
 nTownsend, J. N.Y. Ent. Soc. 40: 456, 1932.
- Megistops dissita**
 inBlake, Bklyn. Ent. Soc. B. 26: 81-82, 1931.
- Melalopha inclusa**
 Britton, Conn. B. 344: 149, 1933.
- Melanactes agrypnoides**
 bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 446, 1932.
- Melanchroia cephise**
 Wicklure, Ent. News 43: 16-17, 1932.
- Melandrya striata**
 Knull, Ent. News 43: 45, 1932.

Melanius ebeninus

Nicolay & Weiss, J. N.Y. Ent. Soc. 42: 43, 1934.

Melanocallis caryaefoliae (Davis) (Black pecan aphid)*

biBissell, Ann. Ent. Soc. Amer. 25: 730-735, 1932.

Kislanko, Nat. Pecan Grow. Assoc. P. 29: 51, 1930.

Marlatt, USDA Ent. R. f. 1933: 8.

Moznette, Ga.-Fla. Pecan Grow. Assoc. P. 27: 45-48, 1933.

Moznette, Southeast. Pecan Grow. Assoc. P. 28: 55-61, 1934.

Walker, Fla. R. f. 1932: 80-82.

Melanocallis fumipennella

Walker, Fla. R. 45: 75-76, 1931.

Walker, Ga.-Fla. Pecan Grow. Assoc. P. 26: 39-43, 1932.

Melanojeania

nTownsend, J. N.Y. Ent. Soc. 40: 465-466, 1932.

Melanolestes abdominalis

biMatheson, Med. Ent.: 144, 1932.

Melanolomina

inCurran, Fam. & Genera of North Amer. Diptera: 281, 1934.

Melanolophia canadaria

iMcDunnough, Can. Ent. 65: 123-124, 1933.

Melanophila arcuata

nFall, Pan-Pac. Ent. 8: 83-84, 1931.

Melanophila fulvoguttata (Harr.) (Hemlock borer)*

Balch, For. Chron. 7: 66-67, 1931.

Balch, N S. Dept. Lands & For. R. f. 1931: 51, 1932.

Felt & Bromley, Nat. Shade Tree Conf. P. 6: 17, 1930.

Melanophila gentilis

Weaver, J. For. 32: 100-103, 1934.

Melanophila spp.

Linsley, Pan-Pac. Ent. 9: 138, 1933.

Melanopli

binHebard, Trans. Amer. Ent. Soc. 60: 337-390, 1934.

Melanoplus ablutus 367-368, **acrophilus** 353-356

inHebard, Trans. Amer. Ent. Soc. 60: '34.

Melanoplus adelogyrus

inHubell, Mich. Univ. Mus. Zool. Misc. Pub. 23: 36-41, 1932.

Melanoplus angularis

inLittle, P. Ent. Soc. Wash. 34: 153-155, 1932.

Melanoplus apalachicola

inHubell, Mich. Univ. Mus. Zool. Misc. Pub. 23: 41-46, 1932.

Melanoplus artemisiae

iHebard, Trans. Amer. Ent. Soc. 60: 375, 1934.

Melanoplus atlanis *see* **Melanoplus mexicanus****Melanoplus bakeri**

inHebard, Trans. Amer. Ent. Soc. 58: 287-288, 1932.

Melanoplus beameri

inHebard, P. Acad. Nat. Sci. Phila. 83: 175-177, 1931.

iHebard, Trans. Amer. Ent. Soc. 60: 346, 1934.

Melanoplus bispinosus

bHorsfall, Dowell & Palm, J. Kans. Ent. Soc. 6: 101, 1933.

Melanoplus bivittatus (Two-striped grasshopper)*

Buckell, B.C. Ent. Soc. P. 27: 39-40, 1930.

iCriddle, Can. Min. Agr. B. n.s. 143: 17, 1931.

bCriddle, P. World's Grain Exhib. & Conf., Can. 1933: 492-493.

Drake, Iowa Dept. Agr. YB 33: 50-51, 1933.

iDrake & Decker, Iowa Ext. B. 182: 4, 1932.

Hebard, Minn. TB 85: 35, 1932.

Henderson, Utah C. 96: 31-32, 1931.

Knowlton & Janes, Utah Acad. Sci. P. 9: 107, 1932.

iList, Col. St. Ent. C. 59: 4, 1934.

iMitchener, Ent. Soc. Ont. R. 63: 45-48, 1932.

Parker, J. Ec. Ent. 26: 103, 1933.

iParker, USDA C. 302, 1933, 4p.

Parker & Shotwell, J. Ec. Ent. 25: 174-187, 1932.

iStrickland, Alberta Ext. B. 24: 16-17, 1933.

Twinn, Ent. Soc. Ont. R. 64: 64, 1933.

Twinn, Ent. Soc. Ont. R. 65: 113, 1934.

Melanoplus borealis

inFulton, Ann. Ent. Soc. Amer. 23: 619-620, 1930.

- Rehn, Ent. News 42: 33-35, 1931.
- Melanoplus bruneri**
Criddle, Can. Min. Agr. B. n.s. 143: 17, 1931.
- Melanoplus calidus** 368-369, **cherokee** 358-359, **chiricahuae** 369-370
iHebard, Trans. Amer. Ent. Soc. 60: 1934.
- Melanoplus confusus, dawsoni**
Criddle, Can. Min. Agr. B. n.s. 143: 17, 18, 1931.
- Melanoplus deceptus** 356-357, **delaware** 359-362
inHebard, Trans. Amer. Ent. Soc. 60: 1934.
- Melanoplus differentialis (Differential grasshopper)***
biBeams & King, J. Morph. 53: 59-95, 1932.
Drake, Iowa Dept. Agr. YB 33: 50-51, 1933.
iDrake & Decker, Iowa Ext. B. 182: 4, 1932.
- biElse, J. Morph. 55: 577-609, 1934.
Folsom, USDA FB 1688: 23, 1932.
- biHodge, Physiol. Zool. 6: 306-328, 1933.
- bHorsfall, Dowell & Palm, J. Kans. Ent. Soc. 6: 101-102, 1933.
King, Amer. Nat. 67: 80, 1933.
iList, Col. St. Ent. C. 59: 4-5, 1934.
- biNelsen, J. Morph. 51: 467-525, 1931; 55: 515-575, 1934.
Parker, J. Ec. Ent. 26: 103, 1933.
Parker, P. Ent. Soc. Wash. 35: 28, '33.
iParker, USDA C. 302, 1933, 4p.
Parker & Shotwell, J. Ec. Ent. 25: 174-187, 1932.
- bRichardson & Thurber, J. Ec. Ent. 26: 494-499, 1933.
- biSlifer, Physiol. Zool. 3: 503-518, 1930.
biSlifer, J. Morph. 53: 1-21, 1932.
- Melanoplus differentialis—Eggs**
biBurkholder, Physiol. Zool. 7: 247-270, 1934.
- biKing & Slifer, J. Morph. 56: 593-619, 1934.
- Melanoplus differentialis—Insecticides**
Buchanan & Stevenson, Iowa R. f. 1933: 72.
- biRichardson & Haas, J. Ec. Ent. 25: 1078-1088, 1932.
- Melanoplus femur-nigrum**
iHebard, Trans. Amer. Ent. Soc. 60: 370-371, 1934.
- Melanoplus femur-rubrum (Red-legged grasshopper)***
biBeams & King, J. Morph. 53: 223-242, 1932.
Buckell, B.C. Ent. Soc. P. 27: 41, 1930.
Criddle, Can. Min. Agr. B. n.s. 143: 17, 1931.
- iDrake & Decker, Iowa Ext. B. 182: 4-5, 1932.
- biHartzell, Boyce Thompson Inst. Contrib. 6: 211-223, 1934.
- iHenderson, Utah C. 96: 28-30, 1931.
- bHorsfall, Dowell & Palm, J. Kans. Ent. Soc. 6: 101, 1933.
Knowlton & Janes, Utah Acad. Sci. P. 9: 107, 1932.
- iList, Col. St. Ent. C. 59: 5-6, 1934.
- biLucas & Stark, J. Morph. 52: 91-111, 1931.
- Parker, J. Ec. Ent. 26: 103, 1933.
- biRichardson & Haas, J. Ec. Ent. 25: 1078-1088, 1932.
- biScott, Trans. Amer. Micros. Soc. 50: 30-45, 1931.
- Watson & Berger, Fla. Ext. B. 67: 119, 1932.
- Melanoplus femur-rubrum and skunks**
Hamilton, J. Ec. Ent. 24: 918, 1931.
- Melanoplus foetidus**
bCriddle, P. World's Grain Exhib. & Conf., Can. 1933: 494.
Hebard, Minn. TB 85: 39, 1932.
- Melanoplus forcipatus**
inHubbell, Mich. Univ. Mus. Zool. Misc. Pub. 23: 51-56, 1932.
- Melanoplus gracilis** 341, **hubbelli** 350-353, **idaho** 379-380
inHebard, Trans. Amer. Ent. Soc. 60: '34.
- Melanoplus indicifer**
inHubbell, Mich. Univ. Mus. Zool. Misc. Pub. 23: 56-58, 1932.
nHubbell, Ent. News 44: 74, 1933.
- Melanoplus insignis, see Melanoplus indicifer**
- Melanoplus lemhiensis** 376-377, **lepidus** 367, **longicornis** 348-349
iHebard, Trans. Amer. Ent. Soc. 60: '34.

- Melanoplus lovetti**
inFulton, Ann. Ent. Soc. Amer. 23: 615-618, 1930.
- Melanoplus magdalenae**
inHebard, Trans. Amer. Ent. Soc. 60: 371-373, 1934.
- Melanoplus mexicanus (Lesser migratory grasshopper)**
iCriddle, Can. Min. Agr. B. n.s. 143: 14, 1931.
biFaure, J. Ec. Ent. 26: 706-718, 1933.
iHenderson, Utah C. 96: 29-30, 1931.
bHorsfall, Dowell & Palm, J. Kans. Ent. Soc. 6: 101, 1933.
Knowlton & Janes, Utah Acad. Sci. P. 9: 107, 1932.
[Larrimer], Dak. Farm. 53: 248, 1933.
iList, Col. St. Ent. C. 59: 5, 1934.
Mitchener, Manitoba Dept. Agr. Ext. B. 98: 7, 1932.
iMitchener, Ent. Soc. Ont. 63: 45-48, 1932.
bParker, Mont. B. 223, 1930, 131p.
iParker, USDA C. 302, 1933, 4p.
biShotwell, USDA TB 190, 1930, 32p.
iSpeer, Country Gentl. 104(4): 11, 54-55, 1934.
iStrickland, Alberta Ext. B. 24: 16-17, 1933.
Twin, Ent. Soc. Ont. R. 64: 64, 1933; R. 65: 113, 1934.
biYoung, J. Ec. Ent. 27: 548, 1934.
- Melanoplus mexicanus bilitturatus**
Buckell, B.C. Ent. Soc. P. 27: 41-44, 1930.
- Melanoplus montanus** 378-379, olamentke 363, oreophilus 386-387.
Hebard, Trans. Amer. Ent. Soc. 60: '34.
- Melanoplus packardii**
Criddle, Can. Min. Agr. B. n.s. 143: 18, 1931.
bCriddle, P. World's Grain Exhib. & Conf., Can.: 494, 1933.
iHenderson, Utah C. 96: 31, 1931.
biYoung, J. Ec. Ent. 27: 548, 1934.
- Melanoplus puer group**
iHubbell, Mich. Univ. Mus. Zool. Misc. Pub. 23, 1932, 64p.
- Melanoplus pygmaeus**
Hubbell, Mich. Univ. Mus. Zool. Misc. Pub. 23: 24, 1932.
- Melanoplus repetinus**
inHebard, Trans. Amer. Ent. Soc. 60: 383-386, 1934.
- Melanoplus rotundipennis**
iHubbell, Mich. Univ. Mus. Zool. Misc. Pub. 23: 23-24, 1932.
- Melanoplus salmonis**
inHebard, Trans. Amer. Ent. Soc. 60: 380-382, 1934.
- Melanoplus saltator**
iFulton, Ann. Ent. Soc. Amer. 23: 620-622, 1930.
- Melanoplus similis** 346-348, snowii 371, solitudinis 364-367
inHebard, Trans. Amer. Ent. Soc. 60: '34.
- Melanoplus spp.**
iHebard, Trans. Amer. Ent. Soc. 60: 343-346, 382-383, 1934.
Ryan, Los Angeles Co. Comm. Agr. R. f. 1932: 14.
Snodgrass, Smithsonian. Sci. Ser. 5: 1-25, 1930.
Wallace, Ind. Dept. Conserv. R. 13: 52, 1931.
Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1931: 26, 1932.
iWalton, USDA FB 835 rev.: 11-13, '31.
- Melanoplus spretus**
iAlden, Nat. Mag. 15: 379-382, 1930.
iDrake, Iowa Dept. Agr. YB 32: 92-94, 1932.
Henderson, Utah C. 96: 18-20, 1931.
Howard, Hist. of Appl'd. Ent.: 78-83, 1930.
- Melanoplus stonei**
Hebard, Minn. TB 85: 38, 1932.
- Melanoplus sylvaticus**
iHebard, Trans. Amer. Ent. Soc. 60: 342, 1934.
- Melanoplus tequestae**
iHubbell, Mich. Univ. Mus. Zool. Misc. Pub. 23: 46-51, 1932.
- Melanoplus truncatus**
iHebard, Trans. Amer. Ent. Soc. 60: 374, 1934.
- Melanoplus tumidicercus**
iHubbell, Mich. Univ. Mus. Zool. Misc. Pub. 23: 19-22, 1932.
- Melanoplus validus**
iFulton, Ann. Ent. Soc. Amer. 23: 622-624, 1930.

Melanostoma—Key

- Curran, BAMNH 61: 64-68, 1931.
Melanostoma agens, nitidiventris
 nCurran, Can. Ent. 63: 252-254, 1931.
Melanotrichus leviculus
 bMcGarr, J. Ec. Ent. 26: 953-956, 1933.
Melanotus communis
 Knull, Ent. News 43: 44, 1932.
Melanotus difficilis—Jumping ability
 McClure, Can. Ent. 44: 145-147, 1933.
Melanotus fissilis
 Knull, Ent. News 43: 44, 1932.
Melanotus spp.
 Hawkins, Maine R. 46: 233, 1930.
 Hawkins, J. Ec. Ent. 23: 349-352, 1930.
 Milord, Rev. de Agr. Cuba 12(4): 37, 1930.
 Smith, J. Kans. Ent. Soc. 5: 89, 1932.
 Van Dyke, Cal. Acad. Sci. P. Ser. 4, 20: 331-332, 1932.
Melanoxanthus acutifrons 480, **basalis** 479, **bilineatus** 480
 nFleutiaux, Hawaiian Ent. Soc. P. 8: '34.
Melanoxanthus exiguus, glyphonides
 inVan Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 433-434, 1931.
Melanoxanthus longicollis
 nFleutiaux, Hawaiian Ent. Soc. P. 8: 479, 1934.
Melanoxanthus melanocephalus
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 216, 1933.
 Williams, Hawaiian Ent. Soc. P. 8: 223, 1933.
 bWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 172-173, 1931.
Melanoxanthus parvulus
 nFleutiaux, Hawaiian Ent. Soc. P. 8: 480-481, 1934.
Melasidae
 Fleutiaux, Hawaiian Ent. Soc. P. 7: 453-456, 1931; P. 8: 45-46, 1932.
Melasis pectinicornis
 Knull, Ent. News 43: 44, 1932.
Melecta chinensis
 nCockerell, Amer. Mus. Nov. 466: 6, '31.
Melestora andeana
 inRehn, Trans. Amer. Ent. Soc. 58: 130-133, 1932.

Meliponidae

- biSchwarz, BAMNH 63: 231-460, 1932.
 Schwarz, Amer. Mus. Nov. 731, 1934, 23p.
Melissodes fimbriata
 Cockerell, Ann. Ent. Soc. Amer. 26: 44, 1933.
Melissodes octobris
 nCockerell, Ent. News 45: 30-31, 1934.
Melissopus latiferreanus
 iKeifer, Cal. Agr. Mo. B. 20: 622, 1931.
 Cal. Cult. 76: 626, 1931.
Melitaea chara
 iComstock, So. Cal. Acad. Sci. B. 28: 50-53, 1930.
Melitaea fulvia
 iComstock, Sperry & Sperry, So. Cal. Acad. Sci. B. 32: 102-104, 1933.
Melitaea gabbii
 iComstock, So. Cal. Acad. Sci. B. 30: 15-17, 1931.
Melitaea harrisi (Harris' checker spot)
 Saunders, N.Y. St. Mus. Hdbk. 13: 120-122, 1932.
Melitaea hewesi
 nLeussler, Ent. News 41: 12-13, 1931.
Melitaea leanira wrightii
 iComstock & Dammers, So. Cal. Acad. Sci. B. 31: 9-12, 1932.
Melitaea neumoegeni
 iComstock, So. Cal. Acad. Sci. B. 30: 18, 1931.
 Gunder, Can. Ent. 64: 283, 1932.
 Gunder, Can. Ent. 65: 173, 1933.
Melitaea palla
 Sternitzky, Pan-Pac. Ent. 8: 187, 1932.
Melitaea palla hemifusa
 nGunn, Ent. News 41: 17, 1930.
Melitaea pola
 Sperry & Sperry, So. Cal. Acad. Sci. B. 31: 8, 1932.
Melitaea strophe hopfingeri
 nGunder, Can. Ent. 66: 129-130, 1934.
Melitaea theona
 iComstock, Sperry & Sperry, So. Cal. Acad. Sci. B. 32: 99-101, 1933.
Melitaea wrightii pelona
 nGunder, So. Cal. Acad. Sci. B. 29: 61, 1930.
Melitara spp.
 iMortensen, Cactus & Succul. Soc. Amer. J. 1: 171-173, 1930.

Melitene bifedella

bClausen, USDA C. 168: 21, 1931.

Melittia satyriniformis Hbn. (Squash borer)*

iBritton, Conn. B. 344: 164, 1933.

iCocks, Conn. (Storrs) Ext. B. 185: 6, '33.

Compton, Ill. C. 391: 30-31, 1932.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 61-62, 1933; B. 278: 52-53, 1934.

Davis, Ind. Ext. B. 186: 13, 1932.

Doane, Common Pests: 222, 1931.

biFriend, Conn. B. 328: 583-608, 1931.

Friend, Conn. Veg. Grow. Assoc. R.

19: 29, 1932; R. 20: 69-70, 1933.

• Friend, N.H. Hort. Soc. R. Meet. Manchester Dec. 8, 1932; 67-69.

iGilbert & Popenoe, USDA FB 1371 rev.: 26-27, 1934.

iHutson, Mich. Quar. B. 13: 54-55, '30.

Hutson, Mich. R. 47: 318-319, 1934.

biMex. Agr. & Fomento. Principales Plagas: 185, 1930.

iSanderson, Ins. Pests Farm, ed. 3: 237-238, 1931.

iWatson, Fla. B. 232: 84, 1931.

Melittobia chalybii

biSchmieder, Biol. B. 65: 338-354, 1933.

Melittobia hawaiiensis

Schmidt, Hawaiian Ent. Soc. P. 8: 373, 1934.

Swezey, Hawaiian Ent. Soc. P. 7: 390, 1931.

Melizoneura albipennis

iGreene, P. Ent. Soc. Wash. 36: 29, '34.

Meloe americanus (Oil beetle) on mustard

Marcovitch, Tenn. R. 45: 33, 1932.

Meloidae (Blister beetles)

Carruth, Ent. News 42: 50-55, 1931.

Compton, Ill. C. 391: 17-18, 1932.

Maydell, Trans. Amer. Ent. Soc. 60: 327-336, 1934.

iPieper, Burlison & Flint, Ill. B. 344: 276-277, 1930.

Riley & Johannsen, Med. Ent.: 165-172, 1932.

Van Dyke, Pan-Pac. Ent. 6: 122, 1930.

Melolontha vulgaris

Haweis, Nature Mag. 21: 286, 1933.

Melolonthinae

Chapin, Ann. Ent. Soc. Amer. 25: 173-209, 1932.

***Melon aphid, see Aphis gossypii** Glov.**Melon insects**

Edmond, Strand & McNall, Mich. Sp. B. 193: 47-49, 1930.

iGilbert & Popenoe, USDA FB 1371 rev.: 25-26, 1934.

Haseman, Mo. B. 340: 50-51, '34.

Haseman & Johnson, Mo. B. 300: 71, '31.

Haseman & McCall, Mo. B. 310: 32-33, 1932; B. 328: 30, 1933.

Langford, Peninsula Hort. Soc. Trans. f. 1931: 75-76.

iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(5): 1-3, 1930.

Melonworm, see Diaphania hyalinata** (L.)**Melon louse, see Aphis gossypii*Melonfly, see Bactrocera cucurbitae****Melophagus ovinus** L. (Sheep tick)*

Davis, Ind. Ext. B. 105 rev.: 4, 1933.

iHall, USDA FB 1330 rev.: 5-7, 1932.

iImes, USDA FB 798 rev.: 1932, 22p.

Marsh, Nat. Wool Grow. 21(3): 26, '31.

Mex. Agr. & Fomento. Principales Plagas: 246, 1930.

iPettit, Mich. R. 46: 234, 1933.

iSanderson, Ins. Pests Farm, ed. 3: 508-509, 1931.

Melyridae

Blaisdell, Pan-Pac. Ent. 7: 17-19, 1930.

iBlaisdell, Can. Ent. 63: 178-183, 1931.

Blaisdell, Trans. Amer. Ent. Soc. 57: 325-327, 1931.

Membracidae

Ball, P. Biol. Soc. Wash. 46: 25-32, '33.

iBeard, Amer. Boys' Bk. Bugs: 280-288, 1932.

iFunkhouser, J. N.Y. Ent. Soc. 38: 405-420, 1930.

iGoding, Amer. Mus. Nov. 421, 1930, 27p.

iGoding, J. N.Y. Ent. Soc. 38: 39-42, 89-92, 1930; 39: 299-313, 1931; 40:

205-239, 1932; 42: 451-480, 1934.

Goding, Ann. Ent. Soc. Amer. 24: 935-936, 1931.

Goding, Ent. News 44: 185-187, 1933.

iMcAtee, Nature Mag. 23: 118-120, '34.

iYothers, USDA C. 106, rev.: 1931, 15p.

biYothers, USDA TB 402, 1934, 45p.

Memyrthus fraxini

Engelhardt, Bklyn. Ent. Soc. B. 29: 101, 1934.

- Memythrus (Paranthrene) polistiformis**
iSanderson, Ins. Pests Farm, ed. 3: 414-415, 1931.
- Menacanthus sp.**
Stoddard, Bobwhite Quail: 316-317, 1931.
- Menecles insertus**
biBaker, Can. J. Res. 4: 200, 1931.
- Menemerus fraternus**
inBanks, Univ. Okla. Biol. Surv. Pub. 4: 17, 1932.
- Menopon biseriatum, see Eomenacanthus stramineus**
- Menopon gallinae**
iBishopp & Wood, USDA FB 801, rev.: 11-12, 1931.
Van Es, & Olney, Neb. B. 290: 101, '34.
- Menopon pallidum**
Calder, J. Kans. Ent. Soc. 4: 78, 1931.
- Menopon sternophilum**
inFerris, Bernice P. Bishop Mus. B. 98: 59, 1932.
- Menopon stramineum, see Eomenacanthus stramineus**
- Menosoma acuminata**
iOman, J. Wash. Acad. Sci. 21: 433-435, 1931.
- Menosoma cincta binaria, stonei, tortolita**
nBall, Fla. Ent. 15: 5-6, 1931.
- Menovectura, M. serrulata**
nBlaisdell, Can. Ent. 63: 181-183, 1931.
- Meracantha contracta**
biMiller, Ohio J. Sci. 31: 143-156, 1931.
- Meragenia, M. spp.**
nBanks, Amer. Acad. Arts & Sci. P. 69(1): 75-77, 1934.
- Meranoplus bicolor fuscescens**
nWheeler, N.Eng. Zool. Club. P. 11: 101, 1930.
- Meraporus crassicornis**
bGahan, USDA Misc. Pub. 174: 70-71, 1933.
- Meriania septentrionalis**
nCurran, J. N.Y. Ent. Soc. 38: 75-76, 1930.
- Merisoporus chalcidiphagus**
biGahan, USDA Misc. Pub. 174: 104-109, 1933.
- Merisus cognatus**
inGahan, USDA Misc. Pub. 174: 102-104, 1933.
- Merisus destructor**
biGahan, USDA Misc. Pub. 174: 89-95, 1933.
Rockwood & Reeher, USDA TB 361: 18, 1933.
- Merisus febriculosis, mordellisteneae**
biGahan, USDA Misc. Pub. 174: 95-102, 1933.
- Mermiria bivittata**
iHenderson, Utah C. 96: 22-23, 1931.
- Mermis sp.**
iWatson, Fla. B. 232: 46, 1931.
Wheeler, Psyche 40: 20-31, 1933.
- Merodone equestris (Narcissus bulb fly)***
iBritton, Conn. B. 349: 449, 1933.
Dearing & Griffiths, N.C. Agr. B. Jan. 1930, 44p.
Del Curto, Tex. Dept. Agr. B. 106: 30-31, 1931.
bGriffiths, USDA C. 122: 60, 1930.
Haseman & Jones, Mo. B. 342: 25, '34.
Jardine, Oreg. Bien. R. f. 1928/1930: 88-89.
biLatta, J. Ec. Ent. 25: 1020-1026, 1932.
iMcDaniel, Mich. Sp. B. 214: 89-90, '31.
Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 23.
Strong, Amer. Flor. 73(2221): 27, 1931.
Strong, USDA SRA BPQ 112: 73-74, 1932.
Strong, USDA BPQ R. f. 1933: 31.
iWinter, Minn. Hort. 58: 43-45, 1930.
- Merodon equestris—Quarantine**
Britton, Conn. C. 85: 41, 1932.
Brown, Cal. Agr. Mo. B. 23: 243, 1934.
Hyde, Flor. Exch. 79(23): 9, 26, 1932.
Jardine, USDA PQCA Q. 62, 1932.
- Merodon equestris—Narcissus rot**
Miles, Phytopath. 22: 19, 1932.
- Meroglossa chiropterina**
Cockerell, Psyche 37: 148, 1930.
- Meromacrus fucatus**
nHull, Trans. Amer. Ent. Soc. 56: 143-144, 1930.
- Meromacrus panamensis**
nCurran, Amer. Mus. Nov. 416: 9-11, 1930.
- Meromyza americana Fitch (Wheat stem maggot)***
bDunham, Amer. Soc. Agron. J. 26: 978-980, 1934.
iSchollander, Nat. Underwriter 35: 16,

***Meromyza americana* Cont'd**

Hail & Tornado Insur. Insert IX,
XVI, 1931.

bSeamans, Pac. Sci. Cong. 5, P. 5: 3479-
3480, 1934.

bSmith, Ann. Ent. Soc. Amer. 26: 513,
1933.

Strickland, Alberta Ext. B. 24: 52, '33.

Twinn, Ent. Soc. Ont. R. 64: 66, 1933;
R. 65: 115, 1934.

Merope tuber

Carpenter, B. Mus. Comp. Zool. 72:
207-209, 1931.

Carpenter, Bklyn. Ent. Soc. B. 27: 149,
1932.

Merosargus insularis

nCurran, Cal. Acad. Sci. P. ser. 4, 21:
150, 1934.

***Merosargus* spp.**

Curran, Amer. Mus. Nov. 534: 1-8, '32.

***Merostenus asperatus* 52-53, *elongatus* 54-55, *similis* 53-54.**

nFisher, PUSNM 80(22): 1932.

Merragata hackeri

inHungerford, Bklyn. Ent. Soc. B. 29:
70-71, 1934.

***Messagroicus*—Larva**

Keifer, Ent. Amer. n.s. 13: 57-59, 1932.

***Mesamia* spp.**

nBall, Bklyn. Ent. Soc. B. 26: 91-95, '31.

Mesembrinella formosa

nAldrich, P. Ent. Soc. Wash. 34: 25, '32.

Mesidia gillettei

iDozier, P. Ent. Soc. Wash. 35: 90-91,
1933.

Mesocoelus, M. acrocercopis

inMuesebeck, P. Biol. Soc. Wash. 45:
227-230, 1932.

***Mesogramma polita* (Corn syrphus fly)**

Smith, Fla. Ent. 14: 24, 1930.

***Mesogramma* spp.**

nCurran, Amer. Mus. Nov. 405: 1930,
14p.

nCurran, Cal. Acad. Sci. P. ser. 4, 21:
154-155, 1934.

Mesogramma subannulata

Loftin & Christenson, Internat. Soc.
Sugar Cane Tech. Cong. 4, B. 115
[P. Pt. 2]: 10, 1932.

Mesogramma vitescens

nHull, Trans. Amer. Ent. Soc. 56: 142-
143, 1930.

Mesoleius phyllotomae

nCushman, PUSNM 82(14): 13-14, '33.

Mesoleius tenthredinis

Graham, Can. Ent. 63: 99-102, 1931.

Weir, Can. Min. Agr. R. f. 1931: 32,
178.

Mesolelaps cyaneiventris

Swezey, Hawaiian Ent. Soc. P. 8: 362,
1934.

Mesorhaga caerulea

nVan Duzee, Amer. Mus. No. 439: 1,
1930.

Mesorhaga flavipes

nVan Duzee, Amer. Mus. Nov. 569: 9-
10, 1932.

Mesorhaga ornatipes

inVan Duzee, Ent. News 43: 184-186,
1932.

Mesotermes heros

bCarpenter, Carnegie Mus. Ann. 21:
122-123, 1932.

Mesotrichia bombiforma

iLeVeque, Amer. Mus. Nov. 434, 1930,
19p.

Mesotrichia seychellensis

Cockerell, Amer. Mus. Nov. 615: 1-2,
1933.

***Mesotrichia* spp.**

LeVeque, Science, n.s. 71: 607-608, '30.

Mesovelgia, M. cryptophila

Hoffmann, Can. Ent. 64: 88-95, 113,
120, 126-134, 1932.

Mesovelgia douglasensis

iHoffman, Can. Ent. 64: 126-134, 1932.

Mesovelgia mulsanti

bHoffman, Can. Ent. 64: 88-95, 116-
120, 126-134, 1932.

Williams, Hawaiian Ent. Soc. P. 8:
378-379, 1934.

Mesovelioidea williamsi

iJaczewski, P. Ent. Soc. Wash. 33: 64-
66, 1931.

Mestolobes minuscula

Swezey, Hawaiian Ent. Soc. P. 7: 484,
1931.

Metacycla caeruleipennis

Smyth, J. Kan. Ent. Soc. 7: 119, 1934.

Metagonistylum minense

Aldrich P. Ent. Soc. Wash. 35: 171-
172, 1933.

Metalestra quadrisignata

Thomas, Penn. B. 258: 37, 1930.

- Metallus bethunei**
iCaesar, Ont. B. 355: 30-31, 1930.
- Metallus rubi**
Britton, Conn. B. 344: 87, 1933.
Crosby, Rankin & Mills, N.Y. (C) Ext. B. 306: 9-10, 1934.
iHouser, Ohio B. 454: 69-70, 1930.
Pettit, Mich. Ent. R. f. 1931: 14.
iPettit, Mich. St. Bd. Agr. R. 44: 265, 1931.
- Metamasius hemipterus (L.) (West Indian cane weevil)***
Holloway, Facts about Sugar 26: 303, 1931.
- Metamasius ritchiei Marsh. (Pineapple weevil)***
Carter, Hawaiian Ent. Soc. P. 8: 395-396, 1934.
Johnson, Rev. Agr. P.R. 26: 9, 1931.
- Metamasius sericeus (Oliv.) (Silky cane weevil)***
Holloway, Facts about Sugar 26: 303, 1931.
- Metamasius spp.**
biWolcott, Ec. Ent. of West Indies: 197-200, 1933.
- Metaphycus lounsburyi**
iEssig, Hist. of Ent.: 351-354, 1931.
biQuayle, Cal. B. 542: 43-44, 1932.
bSmith, Ann. Ent. Soc. Amer. 26: 525, 1933.
- Metapobrachia obscura, recta, sagittifera**
Cresson, Trans. Amer. Ent. Soc. 56: 360-361, 1930.
- Metapterus annulipes**
iMills, Bklyn. Ent. Soc. B. 26: 84, 1931.
- Metasyrphus s.s.—Key—spp.**
inFluke, Wis. Acad. Sci. Trans. 28: 78-84, 95-99, 119-120, 1933.
- Meteorus autographae**
bWilson, Fla. Ent. 17(1): 5-6, 1933.
- Meteorus hypophloeii**
nCushman, J. Wash. Acad. Sci. 21: 302, 1931.
iDeLeon, Bklyn. Ent. Soc. B. 28: 32-36, 1933.
- Meteorus (Zemites) nigricollis**
iParker, P. Ent. Soc. Wash. 33: 93-103, 1931.
- Meteorus sp.**
Brown, USDA C. 176: 10-11, 1931.
- Meteorus versicolor**
biProper, J. Agr. Res. 48: 366-368, 1934.
Schaffner, Ann. Ent. Soc. Amer. 27: 588, 1934.
- Methia fragilis**
nLinsley, Pan-Pac. Ent. 8: 121, 1932.
- Methia pallida**
Fisher, PUSNM 80(22): 6-7, 1932.
- Methiini**
Linsley, Pan-Pac. Ent. 8: 112-122, '32.
- Metopornorthus pruinosis Brandt**
biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 333, 1931.
- Metrea ostreonalis**
McDunnough, Can. Ent. 63: 50, 1931.
- Metriocnemus aequalis, hamatus**
nJohannsen, J. N.Y. Ent. Soc. 42: 348-350, 1934.
- Metriocnemus innocuus, mitis**
nCurran, BAMNH 61: 33, 1931.
- Metritia bivittata**
bStearns, J. Ec. Ent. 26: 151-154, 1933.
- Metrobates spp.**
iAnderson, Kans. Sci. B. 20: 297-311, '32.
Anderson, J. Kans. Ent. Soc. 5: 56-60, 1932.
nHungerford, J. Kans. Ent. Soc. 5: 57-60, 1932.
biSchroeder, Kans. Sci. B. 20: 83, 1931.
- Metromenus fraternus**
Swezey, Hawaiian Ent. Soc. P. 7: 337, 1931.
- Metzneria sp.**
bClausen, USDA C. 168: 25-26, 1931.
- *Mexican bean beetle, see Epilachna varivestis Muls.**
- Mexican dung beetle, see Copris incertus var. procidus.**
- *Mexican fruitfly, see Anastrepha ludens**
- Mexican fruit worm, see Anastrepha ludens**
- Mexican grain beetle, see Pharaonotha kirschi**
- *Mexican mealybug, see Phenacoccus gossypii Towns. & Ckll.**
- Mezium americanum.**
Swezey, Hawaiian Ent. Soc. P. 8: 221, 1933.
- Miccotrogus picirostris**
bBaker, J. Ec. Ent. 27: 1103-1104, 1934.
- Micraegalia, M. pusilla**
Brown, Can. Ent. 63: 11-12, 1931.

Micranurida furcifera

in Mills, *Collembola of Iowa*: 27, 1934.

Micrasta cubensis

n Fisher, *Can. Ent.* 62: 10-11, 1930.

Micrathyria—Key

Klots, *N.Y. Acad. Sci. Sci. Surv. P.R.*
14: 37-38, 1932.

Micratopus insularis

in Darlington, *Psyche* 40: 86, 1933.

Micratopus parviceps

in Darlington, *Psyche* 41: 85, 1934.

Microbracon

Whiting, *Penn. Acad. Sci. P.* 7: 118-
119, 1933.

i Whiting & Wenstrup, *J. Heredity* 23:
31-38, 1932.

Microbracon—Antennae

i Speicher & Miller, *Penn. Acad. Sci. P.*
7: 66-69, 1933.

Microbracon—Biparentalism

b Whiting & Anderson, *Amer. Nat.* 66:
420-432, 1932.

Microbracon—Chromosomes

Benkert, *Penn. Acad. Sci. P.* 7: 120, '33.
i Torvik, *Penn. Acad. Sci. P.* 7: 119-120,
1933.

Microbracon—Diploidism

b Torvik, *Biol. B.* 61: 139-156, 1932.
Whiting, *Penn. Acad. Sci. P.* 3: 28-29,
1929.

b Whiting, *Biol. B.* 61: 478-480, 1931.

b Whiting, *Amer. Nat.* 66: 75-81, 1932.

Microbracon—Egg-trinuclearity

Whiting, *Biol. B.* 65: 369, 1933.
b Whiting, *Biol. B.* 66: 145-151, 1934.

Microbracon—Eyes

Whiting, *Biol. B.* 65: 369, 1933.

Microbracon—Gynandromorphs

Greb, *Penn. Acad. Sci. P.* 7: 117-118,
1933.

b Whiting & Stancati, *Biol. B.* 61: 481-
484, 1931.

Whiting & Wenstrup, *J. Heredity* 23:
31-38, 1932.

Microbracon—Impaternate females

b Speicher, *Biol. B.* 67: 277-293, 1934.

Microbracon—Mutations

Speicher, *Biol. B.* 65: 368, 1933.
Whiting, *Genetics*, 17: 1-30, 1932.
Whiting, *Penn. Acad. Sci. P.* 7: 118,
1933.

Microbracon—Ratios

Charles, *Penn. Acad. Sci. P.* 3: 34-36,
1929.

b Whiting & Benkert, *Genetics* 19: 237-
267, 1934.

Microbracon—Sex

b Whiting, Greb & Speicher, *Biol. B.* 66:
152-165, 1934.

Microbracon—X-ray

Stancati, *Penn. Acad. Sci. P.* 7: 121,
1933.

Whiting, *Penn. Acad. Sci. P.* 3: 30-31,
1929.

Whiting & Bostian, *Genetics* 16: 659-
680, 1931.

Microbracon and Stumpy mosaic

Greb & Whiting, *Amer. Nat.* 67: 708,
66-67, 1933.

Microbracon and temperature

b Greb, *Biol. B.* 65: 179-186, 1933.

Microbracon bembeciae

n Walley, *Can. Ent.* 64: 186-187, 1932.

Microbracon brevicornis

b Sachtleben, *Internat. Corn Borer In-*
vest. Sci. R. 3: 50, 52, 106-108, 1930.
Wishart & Thomas, *Ent. Soc. Ont. R.*
63: 40-41, 1932.

Microbracon cryptorhynchi

n Muesebeck, *PUSNM* 79(16): 16, 1931

Microbracon cushmani

Donohoe & Barnes, *J. Ec. Ent.* 27: 859,
1934.

Microbracon furtivus

Decker, *Iowa Res. B.* 143: 345, 1931.

Microbracon hebetor

Flanders, *J. Ec. Ent.* 27: 1197, 1934.
Knowlton, *Utah Acad. Sci. P.* 8: 149-
150, 1931.

b Payne, *Biol. B.* 65: 187-205, 1933.

b Payne, *Biol. Mon.* 4: 1-46, 1934.

Reed, Livingstone & Morrill, *USDA C.*
269: 12, 1933.

Microbracon hebetor and Thelohania ephestiae

Payne, *Ent. News* 44: 22, 1933.

Microbracon isomera

n Cushman, *PUSNM* 79(14): 16, 1932.

Microbracon juglandis

Bostian, *N.C. R.* 55: 79, 1932.

b Bostian, *Biol. B.* 66: 166-181, 1934.

b Whiting, *J. Comp. Psychol.* 14: 345-
363, 1933.

- Whiting, Penn. Acad. Sci. P. 7: 116, 1933.
- Microbracon juglandis**—Egg-trinuclearity
biWhiting, Biol. B. 66: 145-161, 1934.
- Microbracon juglandis**—Genetics
Bostian, N.C. R. 53: 156-157, 1930.
Bostian, N.C. R. 56: 82-83, 1933.
Whiting, Penn. Acad. Sci. P. 4: 79-80, 1930.
- Microbracon juglandis**—Gynandromorphs
biWhiting, J. Comp. Psychol. 14: 345-363, 1932.
- Microbracon juglandis**—Mutations
biWhiting, Genetics 17: 1-30, 1932.
biWhiting, Genetics 19: 268-291, 1934.
- Microbracon juglandis**—Parasites
iSimmons, Reed & McGregor, USDA C. 157: 40-42, 1931.
- Microbracon juglandis**—Sex
Whiting, J. Comp. Psychol. 14: 345-363, 1932.
biWhiting, Greb & Speicher, Biol. B. 66: 152-165, 1934.
- Microbracon juglandis**—X-ray
bWhiting & Anna, Amer. Nat. 67: 88-93, 1933.
biWhiting & Bostian, Genetics 16: 659-680, 1931.
- Microbracon juglandis**—X-ray and mutation
Dunning, Genetics 16: 505-531, 1931.
- Microbracon kirkpatricki**
Peters, J. Ec. Ent. 23: 653, 1930.
- Microbracon mellitor**
Bigger, J. Ec. Ent. 24: 558-591, 1931.
- Microbracon nevadensis**
Wilcox, Gray & Mote, Oreg. B. 296: 17, 1932.
- Microbracon nigrorufum**
nCushman, PUSNM 79(14): 15-16, '32.
- Microbracon phyllocnistidis**
nMuesebeck, P. Ent. Soc. Wash. 35: 198-199, 1933.
- Microbracon pygmaeus**
Christensen, Wis. B. 428: 101, 1934.
Clark, Wis. R. 425: 87, 1932.
bDoner, Ann. Ent. Soc. Amer. 27: 435-442, 1934.
- Microbracon rhyacioniae**
Muesebeck, PUSNM 79(16): 15, 1931.
- Microbracon spp.**—Genetics
Bostian, N.C. R. 54: 111, 1931.
- Microbracon sp. and Xyela**
Cushman, P. Ent. Soc. Wash. 36: 262, 1934.
- Microbracon tachypteri**
bParker & Lamerson, J. Kans. Ent. Soc. 7: 92-93, 1934.
- Microbracon thurberiphagae**
iBruner, Rev. de Agr. Cuba 12(4): 17, 1930.
- Microbracon variabilis**
Gill, Nat. Pecan Grow. Assoc. B. 29: 72, 1930.
Nickels, Nat. Pecan Grow. Assoc. P. 30: 59-60, 1931.
Nickels, Pecan Grow. 1(3): 5, 1933.
bParker & Lamerson, J. Kans. Ent. Soc. 7: 93-94, 1934.
- Microbracon zanthonotus**
McKenzie, Cal. Avocado Assoc. YB f. 1933: 34.
- Microcentrum californicum**
inHebard, Trans. Amer. Ent. Soc. 58: 322-325, 1932.
- Microcentrum retinerve (Burm.) (Angular-winged katydid)***
Quayle, Cal. B. 542: 20-21, 1932.
- Microcentrum simplex, stylatum**
inHebard, Trans. Amer. Ent. Soc. 58: 317-322, 1932.
- Microcentrum veraguae**
inHebard, Trans. Amer. Ent. Soc. 59: 133-134, 1933.
- Microcentrus spp.**
nBall, P. Biol. Soc. Wash. 46: 29-31, '33.
- Microcerotermes**
biLight, Cal. Univ. Pub. Ent. 6(5): 142-146, 1933.
- Microcerotermes beelsoni, championi**
inSnyder, PUSNM 82(16): 12-15, 1933.
- Microcerotermes gracilis**
binLight, Cal. Univ. Pub. Ent. 6(5): 142-144, 1933.
- Microcerotermes septentrionalis**
binLight, Cal. Univ. Pub. Ent. 6(5): 144-146, 1933.
- Microclytus gazellula**
Knull, Ent. News 45: 210, 1934.
- Microdiopsis**
nCurran, Fam. & Genera of North Amer. Diptera: 359, 1934.
- Microdon spp.**
nCurran, Amer. Mus. Nov. 416: 5-8, '30.

- Microdota hemicerus**
 nForbes, N.Y. Acad. Sci. Sci. Surv. P.R.
 12(1 sup.): 343, 1931.
 nForbes, P.R. Dept. Agr. J. 15: 343-346,
 1931.
- Microgaster gelechia trichotaphaea**
 nWalley, Can. Ent. 64: 186, 1932.
- Microgaster tibialis**
 Cartwright, USDA C. 289: 3-13, 1933.
 bClark, USDA TB 455: 22, 1934.
 Kunike, Internat. Corn Borer Invest.
 Sci. R. 3: 63, 1930.
 Vance, Ann. Ent. Soc. Amer. 25: 121-
 135, 1932.
- Microgonus, M. oodemaformis**
 nVan Dyke, Bernice P. Bishop Mus. B.
 98: 51-52, 1932.
- Microlepidoptera**
 biBraun, Trans. Amer. Ent. Soc. 59: 229-
 268, 1933.
 Busck, Bklyn. Ent. Soc. B. 26: 199-
 216, 1931.
 Busck, P. Ent. Soc. Wash. 33: 59-63,
 1931.
 iBusck, Ent. Amer. n.s. 13: 151-202, '33.
 inClarke, Can. Ent. 64: 63-69, 1932; 66:
 171-181, 1934.
 iKeifer, Pan-Pac. Ent. 7: 27-34, 1930;
 8: 61-73, 1931.
 iKeifer, Cal. Agr. Mo. B. 22: 351-365,
 1933.
 Klots, J. N.Y. Ent. Soc. 39: 291-293,
 1931.
 Mann, N.Y. (C.) R. 43: Pt. 2: 45, 1931.
- Microlynchia pusilla**
 Bequaert, Cal. Acad. Sci. P. ser. 4, 21:
 135-136, 1934.
 Ferris, Can. Ent. 62: 66-67, 1930.
- Micromina olivia**
 Bruner, Rev. de Agr. Cuba 14(15/16):
 93, 1933.
- Micromorphus panamensis**
 nVan Duzee, BAMNH 61: 180, 1931.
- Micromus haitiensis**
 nSmith, Ann. Ent. Soc. Amer. 24: 800-
 801, 1931.
- Micromus variolosus**
 bSmith, J. Kans. Ent. Soc. 7: 125-126,
 1934.
- Micromyzus violae (Perg.) (Violet aphid)***
 bBentley & Bartlett, Tenn. Pl. Dis.
 Control B. 57: 29-30, 1931.
- McDaniel, Mich. Sp. B. 214: 50, 1931.
- Micronomada**
 Rodeck, Amer. Mus. Nov. 496: 6-7,
 1931.
- Micropeza spp.**
 nCresson, Trans. Amer. Ent. Soc. 56:
 357-359, 1930.
- Micropezidae**
 Bryan, Hawaiian Ent. Soc. P. 8: 33-34,
 1932.
 Cresson, Trans. Amer. Ent. Soc. 56:
 307-362, 1930.
 Curran, BAMNH 58: 177-179, 1929.
 Curran, Amer. Mus. Nov. 456: 21, '31.
- Microphthalma michiganensis**
 Weir, Can. Min. Agr. R. f. 1931/1932:
 178, 185.
- Microplitis carteri**
 nWalley, Can. Ent. 64: 185, 1932.
- Microplitis croceipes**
 Winburn & Painter, J. Kans. Ent. Soc.
 5: 18-21, 1932.
- Microplitis gortynae**
 Decker, Iowa Res. B. 143: 345, 1931.
- Microrhopala vittata**
 Hendrickson, Can. Ent. 62: 98-99, '30.
- Microssillus baccharis**
 Reinhard, PUSNM 79(11): 3-4, 1931.
- Microsiphum granarium**
 Strickland, Alberta Univ. Coll. Agr. B.
 24: 55-56, 1933.
- Microsiphum pisi**
 Crosby & Chupp, N.Y. (C.) B. 206: 37-
 38, 1931.
- Microstylus spp.**
 nBromley, Bklyn. Ent. Soc. B. 25: 283-
 287, 1930.
- Microtermes pubescens**
 nSnyder, PUSNM 82(16): 9-10, 1933.
- Microtermes unicolor**
 nSnyder, P. Biol. Soc. Wash. 46: 92-93,
 1933.
- Microtownsendia**
 nCurran, Fam. & Genera of North Amer.
 Diptera: 471, 1934.
- Microvelia spp.**
 nDrake & Harris, P. Biol. Soc. Wash.
 46: 52-53, 1933.
- Microweisa ovata**
 nNunenmacher, Pan-Pac. Ent. 10: 20,
 1934.

- Mid-rib walnut aphid**, *see* *Callipterus juglandis*
- Midas**
 Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 18.
- Midas pygmaeus**
 biCompere & Smith, *Hilgardia* 6: 606-607, 1932.
- Milichiella bakeri**
 nAldrich, Hawaiian Ent. Soc. P. 7: 398, 1931.
- Milichiella circularis**
 nAldrich, Hawaiian Ent. Soc. P. 7: 397-398, 1931.
 Hawaiian Ent. Soc. P. 7: 336, 1931.
- Milichiella smithi**
 nAldrich, Hawaiian Ent. Soc. P. 7: 399, 1931.
- Milkweed butterfly**, *see* *Danaus archippus*
- Mill insects**
 A.H.P. Textile Colorist 56: 178, 1934.
 Dean & Schenk, *Northw. Miller*, 162: 475, 1930.
 Doane, *Common Pests*: 329, 346, 1932.
 Gray, Ent. Soc. Ont. R. 65: 67, 1934.
 Gray, Que. Soc. Prot. Pl. R. 25/26: 47-51, 1934.
 Haas, *Millers Rev.* 94(1): 26-27, 1930.
 Hamlin, Cent. West. Shippers Advisory Bd. P. 20: 61-66, 1930.
 iHodges, Nat. & Amer. Miller 62(3): 46, 51, 77, 1934.
 iMayor, Nat. & Amer. Miller 62(3): 39-40, 1934.
 iRessler, Nat. & Amer. Miller 62(3): 41-44, 1934.
 bSchwardt, Ark. B. 309, 1934, 14p.
- Millardia**
 nCurran, Fam. & Genera of North Amer. Diptera: 231, 1934.
- Millipedes**
 bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 51-52, 1931.
 iBlake, B. Bost. Soc. Nat. Hist. 60: 15-19, 1931.
 Bourne, Mass. Ext. Leaf. 20 rev.: 24, 1933.
 Bruner, Rev. de Agr. Cuba 14(7): 86, 1933.
 Chamberlin, Pan-Pac. Ent. 9: 11-24, 1933.
- iDustan, Can. Dept. Agr. B. 161 n.s.: 30, 1932.
- iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 62, 1934.
- iLoomis, Smithson. Misc. Coll. 89(14): 1934, 69p.
- MacLeod, N.Y. (C.) R. 46: 109-110, 1933.
- iMacLeod & Rawlins, N.Y. (C.) B. 569: 7-8, 1933.
- Wallace et al, Ind. Dept. Conserv. R. 14: 58, 1932.
- Mimesa subgen.—Key**
 iMalloch, PUSNM 82(26): 27-31, 1934.
- Mimicry**, *see* **Insects—Mimicry**
- Mimorista flavidissimalis**
 bHamlin, Ann. Ent. Soc. Amer. 25: 103-104, 1932.
 Mortensen, Cactus & Succul. Soc. Amer. J. 1: 173, 1930.
- iStillwell, Farm & Ranch 52(14): 3, 11, 1933.
- Mimusesa subgen.—Key**
 niMalloch, PUSNM 82(26): 16-19, 1934.
- Mina spinosa**
 inFunkhouser, J. N.Y. Ent. Soc. 38: 409, 1930.
- Mindanaia latifasciata**
 nMalloch, PUSNM 78(15): 25, 1931.
- Mineola indigenella (Leaf crumpler)***
 Britton, Conn. B. 344: 75, 1933.
 Essig & Keifer, Cal. Agr. Mo. B. 22: 155, 1933.
 iQuaintance & Siegler, USDA FB 1270 rev.: 54-55, 1931.
- Mineola juglandis**, *see* **Acrobasis juglandis**
- Mineola scitulella**
 iEssig & Keifer, Cal. Agr. Mo. B. 22: 153-155, 1933.
 Haegle, Ida. St. Hort. Soc. P. 37: 54-57, 1932.
 biHaegle, J. Ec. Ent. 25: 1073-1077, '32, Haegle, Ida. St. Hort. Assoc. P. 38: 83-89, 1933.
 Iddings, Ida. B. 179: 29, 1931; B. 197: 37, 1933.
 Newcomer, USDA C. 270: 56, 1933.
 Pack & Dowdle, J. Ec. Ent. 23: 231, 1930.
 Wakeland, Ida. B. 170: 20-21, 1930.
 Wakeland, Ida. St. Hort. Assoc. P. 36: 159-160, 1931.

Mineola vaccinii (Riley) (Cranberry fruit-worm)*

- Britton, Conn. B. 344: 101, 1933.
 Crowley, Wash. B. 305: 62, 1934.
 Gilliatt, N.S. Fr. Grow. Assoc. R. 71: 54, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 73, 1933; R. 65: 121, 1934.
 Walker, Fla. R. 45: 76, 1931.
 Walker, Fla. R. f. 1932: 85.

Mineola vaccinii—Parasites

- Crowley, Wash. B. 260: 68, 1931.
 Goldsworthy, Wis. Cranb. Grow. Assoc Meet. 46: 50, 1933.

Mink insects

- bHansen, Amer. Fur Breeder 5(7): 5-7, 1933.

Minotocypus, M. spp.

- nBanks, Amer. Acad. Arts & Sci. P. 69(1): 112, 1934.

Mint flea beetle, see Longitarsus waterhousei**Miridae**

- Johnston, Bklyn. Ent. Soc. B. 25: 295-300, 1930.
 Knight, Ent. News 41: 319-321, 1930.
 bMusgrave, Bklyn. Ent. Soc. B. 29: 99-101, 1934.

Miridae—Feeding punctures

- biKing & Cook, USDA TB 296, 1932, 12p.

Mirotermes (Mirotermes) panamaensis

- bLight, Cal. Univ. Pub. Ent. 6(5): 141-142, 1933.

Mischocyttarus flavitarsis

- Bequaert, Ent. Amer. n.s. 13: 119-135, 1932.
 Hayward, Ent. News 41: 222, 1930.
 biHayward, Utah Acad. Sci. P. 9: 88, 1932.

Mischocyttarus spp.

- . Bequaert, Ent. Amer. n.s. 13: 112-119, 1932.

Miscodera spp.

- Hatch, Pan-Pac. Ent. 9: 7-8, 1933.

Missouri bee-killer, see Proctacanthus milbertii**Mite-eating ladybird, see Stethorus vagans****Mites**

- bBice, Hawaii C. 5: 34-36, 1932.
 bEwing, P. Ent. Soc. Wash. 34: 13-16, 1932.

Faust, Sci. Month. 33: 230, 1931.

Houser, Nat. Nurserym. 38(3): 6, 1930.

bJacot, P. Ent. Soc. Wash. 35: 206-208, 1933.

Kime, Cit. Ind. 13(5): 20, 24, 1932.

Liston, Kans. Ent. Comm. Bien. R. 12: 22-23, 1931.

McDaniel, Mich. Sp. B. 214: 31-38, 1931.

Rawson, Sci. Month. 39: 508-510, '34.

iSmith, J. Kans. Ent. Soc. 7: 48, 1934.

iStiner, Food Ind. 6: 461, 1934.

Watson & Berger, Fla. Ext. B. 67: 20, 1932.

iWhitehead, J. Agr. & Hort. 35: 187-188, 1932.

Mites—Taxonomy

Ewing, P. Biol. Soc. Wash. 45: 99-102, 1932.

Mites and fruit scars

Lockwood, Blue Anchor 11(4): 2-7, 18, 20, 22, 24, 1934.

Mites on poultry

Buckley & Bunyea, USDA FB 1652 rev.: 60-65, 1933.

Halpin, Dak. Farm. 52: 153, 1932.

iLamon & Kinghorne, Pract. Poult. Prod. rev.: 325-327, 1930.

Regenos, Allied Vet. 2(4): 8-9, 1931.

Watson, Fla. Grow. 41(5): 12, 1933.

Whitson, Wallaces' Farmer 56: 584-585, 1931.

Zumbro, Ohio Farm. 165: 804, 1930.

Mitoura loki, nelsoni

iComstock & Dammers, So. Cal. Acad. Sci. B. 31: 40-42, 88-89, 1932.

Mitracarpus portoricensis

Wolcott, P. R. Univ. J. Agr. 18: 437, 1934.

Mitromyia conifer

nCresson, Trans. Amer. Ent. Soc. 56: 329-330, 1930.

Mnasitheus zeteki

inBell, J. N.Y. Ent. Soc. 39: 100-101, '31.

Mocis frugalis

Holloway, Facts about Sugar 28: 217, 1933.

Mocis (Remigia) repanda

biMex. Agr. & Fomento. Principales Plagas: 208-210, 1930.

Watson, Fla. Ent. 17(1): 15, 1933.

- Moeris mapirica**
 biBell, J. N.Y. Ent. Soc. 38: 155, 1930.
- Mogoplistinae**
 iHebard, Trans. Amer. Ent. Soc. 57: 135-160, 1931.
- Molanna musetta, tryphaena**
 inBetten, N.Y. St. Mus. B. 292: 248-249, 1934.
- Mole cricket, Puerto Rico, see Scapteriscus vicinus**
- Mole crickets**
 Brooks, Watson & Mowry, Fla. Co-op. Ext. B. 63: 48-49, 1932.
 iChamplain, Nature Mag. 15: 244, 1930.
 Sherman, S.C. Wkly. News Notes 18: 46, 1930.
 Tissot, Fla. Grow. 41(8): 18, 1933.
 U.S. Golf Assoc. Green Sec. B. 10: 74, 1930.
- Moles—Insect food of**
 Silver & Moore, USDA FB 1716: 7, '33.
- Molophilus spp.**
 nAlexander, Can. Ent. 63: 146-147, '31.
 nAlexander, Ann. Ent. Soc. Amer. 24: 640-642, 1931; 27: 71-73, 1933.
 nLinsley, Pan-Pac. Ent. 8: 37-38, 1931.
- Moluchia 176-179, M. brevipennis 187-188, castanea 185-186, nana 182-185, strigata 180-182**
 iRehn, Trans. Amer. Ent. Soc. 59: 1933.
- Monachulus opacicollis**
 nSchaeffer, J. N.Y. Ent. Soc. 41: 321-322, 1933.
- Monanthia monotropidia**
 Fenton, Can. Ent. 66: 199, 1934.
- *Monarch butterfly, see Danaus menippe**
- Monarthropalus buxi Laboulb. (Boxwood leaf miner)***
 Britton, Conn. B. 344: 88, 1933.
 Cory & Graham, J. Ec. Ent. 23: 563-567, 1930.
 Cory et al., J. Ec. Ent. 24: 169-171, 1931.
 Middleton & Smith, J. Ec. Ent. 23: 289, 1930.
 Middleton & Smith, USDA Off. Rec. 9(16): 1, 1930.
 iMiddleton & Smith, USDA C. 305, 1934, 8p.
 biSmith & Fisher, Penn. Dept. Agr. B. 13(12), 1931, 14p.
- biSoraci, N.J. Dept. Agr. C. 243: 29-30, 1934.
- Monarthrum mali**
 Knoll, Ent. News 45: 212, 1934.
- Moneilema spp.**
 Davis, Bklyn. Ent. Soc. B. 26: 187-188, 1931.
 nFisher, P. Ent. Soc. Wash. 33: 198-201, 1931.
 Hamlin, Ann. Ent. Soc. Amer. 25: 104-110, 1932.
 Houghton, Cactus & Succ. Soc. Amer. J. 2: 298, 1930.
 inPsota, Coleopt. Contrib. 1: 111-141, 1930.
- Monelata nigra**
 nWhittaker, P. Ent. Soc. Wash. 32: 133-134, 1930.
- Monellia caryae**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 895, 1931.
- Monellia costalis**
 Bartholomew, Ann. Ent. Soc. Amer. 25: 726, 1932.
 Moznette, USDA FB 1654: 39-40, '31.
- Monellia nigropunctata**
 nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 252-254, 1931.
- Monellia sp.**
 Moznette, USDA FB 1654: 39-40, '31.
- Monillipatrobis, M. punctatus**
 nHatch, Pan-Pac. Ent. 9: 118-119, 1933.
- Monobia quadridens**
 Rau, Bklyn. Ent. Soc. B. 26: 4-6, 1931.
 Rau, Psyche 41: 245, 1934.
- Monochamus confusor, see Monochamus notatus**
- Monochamus fulvomaculatus**
 nLinsley, Can. Ent. 65: 118-119, 1933.
- Monochamus marmorator Kby. (Balsam fir sawyer)***
 Watson, Sci. Agr. 14: 676, 1934.
- Monochamus notatus (Drury) (Northeastern sawyer)***
 iDunn, Can. Dept. Agr. Div. For. Ins. Sp. C. July, 1930, 2p.; Sp. C. 1931, 4p.
 Dunn, Que. Soc. Prot. Pl. R. 22: 86-88, 1931.
 bEasterling, Ohio J. Sci. 34: 135, 1934.

- Monochamus scutellatus (Say) (White-spotted sawyer)***
 iDunn, Can. Dept. Agr. Div. For. Ins. Sp. C. July 1930, 2p; Sp. C. 1931, 4p.
 Dunn, Que. Soc. Prot. Pl. R. 22: 86-88, 1931.
- Monochamus spp.**
 Hamilton, Nat. Shade Tree Conf. P. 9: 70-71, 1933.
 iDunn, Can. Dept. Agr. Div. For. Ins. Sp. C. July 1930, 2p.; Sp. C. 1931, 4p.
 Dunn, Que. Soc. Prot. Pl. R. 22: 86-88, 1931.
 Twinn, Ent. Soc. Ont. R. 65: 123, 1934.
- Monochamus titillator (F.) (Southern pine sawyer)***
 iGoldman, Trans. Amer. Ent. Soc. 59: 97-98, 1933.
- Monochirus (Hispa) callicanthus**
 bClausen, USDA C. 168: 50, 1931.
- Monocrepidius bifoveatus**
 Loftin, Assoc. Tecn. Azucar. Cuba P. 4: 56-57, 1930.
- Monocrepidius exsul Sharp**
 biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 170-172, '31.
- Monocrepidius lividus**
 Milord, Rev. de Agr. Cuba 12(4): 37, '30.
 bThomas, Ent. News 44: 91-96, 1933.
- Monocrepidius vespertinus**
 Folsom, USDA FB 1688: 25-26, 1932.
 iMilord, Rev. de Agr. Cuba 12(4): 37, 1930.
- Monoculodes nyei**
 inShoemaker, Amer. Mus. Nov. 598: 9, 1933.
- Monodesmus atratus**
 nFisher, PUSNM 80(22): 3-4, 1932.
- Monodontomerus aereus**
 biMuesebeck, J. Agr. Res. 43: 445-460, 1931.
- Monodontonyx spp.**
 nBanks, Amer. Acad. Arts & Sci. P. 69(1): 23-28, 1934.
- Monolepta crucigera**
 Schaeffer, Can. Ent. 64: 239, 1932.
- Monoleuca albicollis**
 nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 167, 1930.
- Monomera blatchleyi**
 Johnson, Psyche 37: 285, 1930.
- Monomorium minimum (Buckl.) (Little black ant)***
 iBentley & Rogers, Tenn. Pl. Dis. Control. B. 40: 12, 1931.
- Monomorium minutum (Black house ant)**
 Dickenson, Extermin. Log 1(5): 9, '33.
 Carl, Yosemite Nature Notes 9: 32, '30.
 biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 25-26, 1931.
 Oberting, Lawn Care 6(5): 3, 1933.
 iSanderson, Ins. Pests Farm, ed. 3: 489-491, 1931.
 Swezey, Hawaiian Ent. Soc. P. 7: 361, 1931.
 iVan de Poele, Nature Mag. 18: 376, 1931.
- Monomorium pharaonis (L.) (Pharaoh's ant)***
 Bentley & Rogers, Tenn. Pl. Dis. Control. B. 40: 12, 1931.
 Dickenson, Extermin. Log 1(5): 9, '33.
 Headlee, N.J. C. 265, 1933, 3p.
 Herrick & Griswold, N.Y. (C) Ext. B. 202: 25, 1931.
 Mitchell, Lawn Care 5(4): 4, 1932.
 iParks & Jones, Ohio Ext. B. 97 rev.: 10-12, 1933.
- Monomorium rubriceps**
 biTulloch, Psyche 37: 202-206, 1930.
- Mononychus vulpeculus**
 bDodge & Smith, Amer. Iris Soc. B. 35: 39-40, 1930.
 Gibson, Ent. Soc. Ont. R. 60: 100-101, 1930.
 Gibson, Can. Dept. Agr. B. n.s. 99, rev.: 34, 1934.
- Monophadnoides rubi (Harr.) (Raspberry sawfly)***
 Britton, Conn. B. 344: 155, 1933.
 iCaesar, Ont. B. 355: 27-28, 1930.
 Dean, Kans. St. Hort. Soc. Bien. R. 40: 152, 1930.
 iHouser, Ohio B. 454: 69, 1930.

- Hutson, Midwest Fruitman, 7(9): 9-10, 1934.
 Jones & Hanson, Wash. Ext. B. 180: 5, 1933.
 Loree, Mich. C.B. 152: 29, 1934.
 Pettit, Mich. Ent. R. f. 1931: 13-14.
 Pettit, Mich. St. Bd. Agr. R. 70: 264, 1931.
 Twinn, Ent. Soc. Ont. R. 64: 73, 1933; R. 65: 121, 1934.
- Monopis meliorella**
 Swezey, Hawaiian Ent. Soc. P. 8: 273, 1933.
- Monoptilota nubilella**
 Crosthwait, Peninsula Hort. Soc. Trans. 47: 76, 1933.
- Monoptilota pergratialis (Hulst) (Lima bean vine borer)***
 Brannon, J. Ec. Ent. 27: 719-720, 1934.
- Monoptilota sp.**
 Watson, Fla. B. 232: 31, 1931.
- Monosoma inferentia andronosa**
 nRoss, Can. Ent. 64: 249-250, 1932.
- Monoxia debilis**
 Sweet, J. Ent. & Zool. 22: 93-94, 100, 1930.
- Monoxia puncticollis (Say) (Beet leaf beetle)***
 iSanderson, Ins. Pests Farm, ed. 3: 241, 1931.
 Schaeffer, Can. Ent. 64: 236-237, 1932.
- Monterey pine midge, see Thecodiplosis piniradiatae.**
- Moose insects**
 Fenstermacher, Minn. B. 308: 15-17, 1934.
 biFenstermacher & Jellison, Minn. B. 294, 1933, 20p.
 Murie, Mich. Univ. Mus. Zool. Misc. Pub. 25: 18, 1934.
- Mopsera**
 nHebard, P. Acad. Nat. Sci. Phila. 81: 78, 1929.
- Mordella bivittata, reynoldsi**
 inRay, Coleop. Contrib. 1: 162-163, 1930.
- Mordellapygium, M. elongatum, philip-pinensis**
 nRay, Coleop. Contrib. 1: 143-145, '30.
- Mordellidae**
 bHendrickson, Bklyn. Ent. Soc. B. 28: 193, 1933.
 iRay, Coleop. Contrib. 1: 143-172, '30.
- Mordellistena carinata** 167, **championi** 166, **longicauda** 155.
 nRay, Coleop. Contrib. 1: 1930.
- Mordellistena nigricans**
 French, Ent. News 44: 33-35, 1933.
- Mordellistena parallela, semilutea**
 inRay, Coleop. Contrib. 1: 169, 170, '30.
- Morelos fruit fly, see Anastrepha ludens.**
- Morion costigerus**
 nDarlington, Psyche 41: 90, 1934.
- Mormidea—Key, M. albisignis**
 Barber & Bruner, P.R. Dept. Agr. J. 16: 251-252, 1932.
- Mormidea angustata**
 biMex. Agr. & Fomento. Principales Plagas: 75-77, 1930.
- Mormidea (Melanochila) purpurescens**
 nVan Duzee, Pan-Pac. Ent. 8: 93, 1931.
- *Mormon cricket, see Anabrus simplex**
- Mormoniella vitripennis**
 Cooley, Mont. St. Bd. Ent. Bien. R. 8: 24, 1930.
 Jellison, Can. Ent. 65: 28, 1933.
- Morochara, M. fascipennis**
 nBanks, Amer. Acad. Arts & Sci. P. 69(1): 98-99, 1934.
- Morodora armata**
 inGahan, Can. Ent. 65: 32-33, 1933.
- Morpheis ehrenbergii**
 iVazquez, Mex. Univ. Nac. Inst. Biol. Anal. 5: 259-267, 1934.
- Morpho peleides insularis**
 iStollmeyer, J. N.Y. Ent. Soc. 40: 523-526, 1932.
- Morphology of insects, see Insects—Morphology**
- Morphopoides, M. coriaceum**
 nRehn, P. Acad. Nat. Sci. Phila. 82: 120-122, 1930.
- Morphopus burri**
 inRehn, P. Acad. Nat. Sci. Phila. 82: 117-120, 1930.
- Morseiella dampfi, rufipes**
 inHebard, Trans. Amer. Ent. Soc. 58: 240-243, 1932.
- Morychus albertanus**
 nBrown, Can. Ent. 64: 8, 1932.
- Mosca prieta, see Aleurocanthus woglumi**
- †Mosquitoes**
 bAlberts, Alaska R. f. 1930: 36, 1931.
 Anderson, La. Com. Agr. & Immig. Bien. R. 26: 16, 1934.

†Mosquitoes *Cont'd*

- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 15-36, 1932; P. 20: 63-90, 1933.
- Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 37-67, 1934.
- Cammell, Mich. Pub. Health 22: 107-110, 1934.
- bCook, U.S. Nav. Med. B. 32: 229-241, 1934.
- iCory et al, Md. Ext. B. 73, July 1934, 31p.
- iDengler et al, Union County Mos. Exterm. Comm. R. f. 1930, 27p.
- iDoane, Common Pests: 29-48, 1931.
- iDunn, Amer. J. Pharm. 104: 679-682, 1932.
- Fisher, Lit. Dig. 108: 22, Mar. 14, 1931.
- Fullerton & Bishop, South. Med. J. 26: 465-468, 1933.
- Ginsburg, Sci. News Letter, 22: 112, '32.
- Gwin, Extermin. Log 2(12): 11, 1934.
- bHeadlee, N.J. Mos. Exterm. Assoc. P. 18: 40-70, 1931.
- Heron, Rev. Unidas 49(10): 42-43, '33.
- biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 11-17, 1931.
- Jackson et al, Amer. J. Pub. Health 20: 628-632, 1930.
- Johnson, B. Bost. Soc. Nat. Hist. 55: 16-20, 1930.
- iJones, Lit. Dig. 114: 28, Oct. 8, 1932.
- Klugh, J. Agr. & Hort. 34: 15, 1930.
- iKnowlton, Utah Leaf. 19, 1934, 3p.
- Lipman, N.J. R. 50: 28, 1929.
- McDaniel, Mich. C.B. 144: 15-26, '32.
- MacLean, Can. Pub. Health J. 22: 7, XIII, 1931.
- iMail, Mont. B. 288: 59-62, 1934.
- Marlatt, USDA Ent. R. f. 1930: 65-66; R. f. 1931: 73-74; R. f. 1933: 39-40.
- Marsh, N.J. Mos. Exterm. Assoc. P. 20: 90-92, 1933.
- biMatheson, Mos. of North Amer. 1929, 268p.
- Matheson, Amer. Nat. 64: 56-86, 1930.
- biMatheson, Med. Ent.: 274-298, 1932.
- iMetcalf, Ill. St. Acad. Sci. Trans. 23: 265-266, 1931.
- biMetcalf, N.Y. St. Mus. B. 289: 34-36, 1932.
- Miller, N.J. Dept. Ent. R. f. 1929: 133-139, 1930.
- Miller, N.J. R. 51: 122-126, 1930; 52: 160-165, 177-178, 1931.
- Miller, N.J. Mos. Exterm. Assoc. P. 19: 40-50, 1932.
- Mitchener & Criddle, Ent. Soc. Ont. R. 60: 25, 1930.
- Preston, N.J. Mos. Exterm. Assoc. P. 20: 107-108, 1933.
- Richardson, Iowa YB Agr. 32: 32, '31.
- Riggin, Va. Health B. 26: 11, 1934.
- iRiley & Johannsen, Med. Ent.: 262-288, 1932.
- Slate, Conn. B. 357: 126, 1934.
- Snodgrass, Smithson. Sci. Ser. 5: 314-353, 1930.
- iStearns, MacCreary & Newhouse, Del. B. 181: 90-97, 1933.
- iSteel, Hygeia, 10: 719-721, 1932.
- Terry, N.J. Mos. Exterm. Assoc. P. 18: 166-169, 1931.
- Twinn, Ent. Soc. Ont. R. 60: 92-96, '30.
- Twinn, N.J. Mos. Exterm. Assoc. P. 18: 10, 1931.
- Van Derwerker, N.J. Mos. Exterm. Assoc. P. 18: 90-100, 1931.
- Walker, N.J. Mos. Exterm. Assoc. P. 20: 24-28, 1933.
- Williams, N.J. Mos. Exterm. Assoc. P. 19: 64-70, 1932.
- Mosquitoes—Adirondacks**
- biMetcalf & Sanderson, N.Y. St. Mus. C. 5: 13, 36-37, 1931.
- Mosquitoes—Aerial mapping**
- Engin. News-Rec. 105: 269, 1930.
- Mosquitoes—Aeroplane dusting**
- iGinsburg, N.J. R. 52: 173-176, 1931.
- Headlee, N.J. R. 53/54: 36-37, 1933.
- iKneen, Airway Age 11: 931-933, 1930.
- iNash, La Hacienda 25: 454-455, 1930.
- Twinn, N.J. Mos. Exterm. Assoc. P. 18: 37-39, 1931.
- iVannote, N.J. Mos. Exterm. Assoc. P. 19: 97-102, 1932.
- Mosquitoes—Aeroplane inspection**
- iMiller, N.J. Mos. Exterm. Assoc. P. 19: 73-79, 1932.
- Mosquitoes—Aeroplane spraying**
- Ginsburg, Science n.s. 75: 542, 1932.
- Ginsburg, Sci. News Letter 22: 112, '32.
- Mosquitoes—Aeroplane transmission**
- Griffitts & Griffitts, Sci. News Letter 20: 324, 1931.

- Griffiths, U.S. Pub. Health R. 46: 2775-2782, 1931.
- Williams, N.J. Mos. Exterm. Assoc. P. 19: 64-70, 1932.
- Amer. J. Pub. Health 22: 397-398, '32.
- J. Amer. Med. Assoc. 98: 1090-1091, 1932.
- Science n.s. 74(1925 sup.): 12, 1931.
- Mosquitoes—Alkali reaction**
- Mail, Science, n.s. 79: 140, 1934.
- Mosquitoes—Arsenic**
- Illingworth, Hawaiian Ent. Soc. P. 7: 414, 1931.
- Pub. Works 63(5): 43, 1932.
- Mosquitoes—Artificial feeding**
- Science n.s. 72(1856 sup.): 12, 1930.
- Mosquitoes—Atlantic County, N.J.**
- Darnall, Atlantic Co. Mos. Exterm. Comm. R. f. 1929, 5p.; R. f. 1930, 5p.; R. f. 1931, 5p.; R. f. 1932, 5p.; R. f. 1933, 5p.; R. f. 1934, 5p.
- Mosquitoes—Attractants**
- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 33, 1932.
- Mosquitoes—Bites**
- biMatheson, Mos. of North Amer.: 73-74, 1929.
- Mosquitoes—Biting periods**
- Farm & Ranch 50(42): 10, 1931.
- Sci. Amer. 146: 359, 1932.
- South. Cult. 89(12): 8, 1931.
- Mosquitoes—Blood meal**
- Russell, Amer. J. Trop. Med. 11: 355-358, 1931.
- Mosquitoes—Breeding places**
- Britton, Conn. C. 73: 9-10, 1931.
- Claassen, Ann. Ent. Soc. Amer. 26: 506, 1933.
- iCurry, Panama Canal Health Dept. R. f. 1931: 59-64.
- Darnall, Atlantic Co. Mos. Exterm. Comm. R. f. 1933: 2-5.
- Dunn, Ecology 15: 329-331, 1934.
- iFoster, Sci. Month. 37: 522-530, 1933.
- Hearle, Pac. Sci. Cong. 5, P. 5: 3355-3356, 1934.
- biHinman, Amer. J. Trop. Med. 11: 459-465, 1931.
- biJesus, Amer. J. Hyg. 17: 502-514, 1933.
- Jones, Pictorial Rev. 32(9): 54, 1931.
- bMatheson & Hinman, Amer. J. Hyg. 11: 174-188, 1930.
- Rudolfs, N.J. Mos. Exterm. Assoc. P. 19: 56-60, 1932.
- Shaw, Science, n.s. 76: 566-567, 1932.
- Sinton & Kehar, Amer. J. Pub. Health 22: 90-91, 1932.
- Slate, Conn. B. 322: 122, 1931.
- Sutton, Amer. City 44(6): 127-128, '31.
- Pub. Works, 63(3): 48-49, 1932.
- Britton, Mos. Prob. of Conn.: 15, 1931.
- Mosquitoes—British Columbia**
- Hearle, N.J. Mos. Exterm. Assoc. P. 19: 11-15, 1932.
- Mosquitoes—CWA**
- iHerms, J. Ec. Ent. 27: 1014-1029, '34.
- Mosquitoes—Canada**
- Gibson, N.J. Mos. Exterm. Assoc. P. 18: 23-55, 1931; P. 20: 92-102, 1933; P. 21: 102-112, 1934.
- Hearle, N.J. Mos. Exterm. Assoc. P. 19: 7-15, 1932.
- Twinn, N.J. Mos. Exterm. Assoc. P. 18: 10-22, 1931.
- Mosquitoes—Cape Cod**
- Maloney, Rur. N.Y. 90: 104, 1931.
- Myhre, N.J. Mos. Exterm. Assoc. P. 19: 79-81, 1932.
- Mosquitoes—Chemicals**
- Ginsburg & Leroy, N.J. R. 51: 128-130, 1930.
- biRudolfs, N.J. B. 496, 1930, 24p.
- Mosquitoes—Collection & preservation**
- biMatheson, Mos. of North Amer.: 76-81, 1929.
- Mosquitoes—Connecticut**
- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 29, 1932.
- Botsford, Conn. B. 315: 608-613, 1930; B. 327: 567-572, 1931; B. 338: 580-582, 1932; B. 349: 439-441, 1933; B. 360: 442-443, 1934.
- Botsford, N.J. Mos. Exterm. Assoc. P. 18: 146-147, 1931; P. 20: 102-103, 1933; P. 21: 112-114, 1934.
- Britton, Mos. Prob. of Conn.: 3-16, 1931.
- Britton & Botsford, N.J. Mos. Exterm. Assoc. P. 19: 52-56, 1932.
- Mosquitoes—Cuba**
- biGerry, Ann. Ent. Soc. Amer. 25: 31-75, 1932.
- Mosquitoes—Delaware**
- McCue, Del. Ext. B. 17: 56-58, 1933.

Mosquitoes—Delaware *Cont'd*

- McCue, Del. Ext. B. 20: 42-44, 1934.
 Stearns, J. Ec. Ent. 27: 683-684, 1934.
 Stearns & MacCreary, N.J. Mos. Exterm. Assoc. P. 21: 128-136, 1934.
 iStearns, MacCreary & Newhouse, Del. B. 181, 1933, 106p.
 Stearns, MacCreary & Newhouse, N.J. Mos. Exterm. Assoc. P. 20: 28-32, 1933.

Mosquitoes—Dissemination

- Bishopp, N.J. Mos. Exterm. Assoc. P. 20: 73-74, 1933.
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 47, 1934.

Mosquitoes—District of Columbia

- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 30, 1932.

Mosquitoes—Ditching machinery

- iPeterson, N.J. Mos. Exterm. Assoc. P. 19: 70-73, 1932.

Mosquitoes—Ecology & food

- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 24-25, 1932.

Mosquitoes—Egg laying

- biMatheson, Mos. of North Amer.: 33-34, 1929.

Mosquitoes—Egg shipping

- Bradley, J. Ec. Ent. 27: 289, 1934.

Mosquitoes—Eggs—Bacteria in

- Hinman, Science, n.s. 76: 106-107, '32.
 bHinman, Amer. J. Trop. Med. 13: 417-423, 1933.
 bRozeboom, Amer. J. Hyg. 20: 496-501, 1934.

Mosquitoes—Electricity

- La Hacienda, 29: A40, 1934.

Mosquitoes—Enemies

- Bishop & Hart, J. N.Y. Ent. Soc. 39: 151-157, 1931.
 Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 27, 1932.
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 51, 1934.

Mosquitoes—Enemies—Animal & plant

- bTwinn, Can. Ent. 63: 51-61, 1931.
 Twinn, N.J. Mos. Exterm. Assoc. P. 18: 35-37, 1931.

Mosquitoes—Enemies—Plant

- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 28, 1932.
 bMatheson, Amer. Nat. 64: 56-86, 1930.

- bMatheson, Smithson. R. f. 1931: 413-430, 1932.

- Twinn, N.J. Mos. Exterm. Assoc. P. 18: 35-37, 1931.

Mosquitoes—Essex Co., N.J.

- Jackson, N.J. Mos. Exterm. Assoc. P. 20: 59-63, 1933.

Mosquitoes—Flight

- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 22-23, 1932.
 Matheson, Mos. of North Amer.: 41-42, 1929.

Mosquitoes—Floodwater

- Twinn, N.J. Mos. Exterm. Assoc. P. 18: 15-17, 1931.

Mosquitoes—Food

- Matheson, Mos. of North Amer.: 39-41, 1929.
 iLit. Dig. 107: 16-17, Dec. 13, 1930.
 Science, n.s. 72 (1856 sup.): 12, 1930.
 Sci. News Letter 18: 59, 1930.
 Mich. Pub. Health 20: 155-156, 1932.

Mosquitoes—Habits & behavior

- Bradley, Fico News 1(9): 3-5, 1933.

Mosquitoes—Haiti

- Cook, South. Med. J. 24: 431-433, '31.
 Mink, U.S. Nav. Med. B. 31: 323-334, 1933.

Mosquitoes—Hawaii

- Bryan, Hawaiian Ent. Soc. P. 8: 3-4, 1932.
 iLee, Hawaii Farm Annual 2: 9, 58, 1934.

Mosquitoes—Hibernation

- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 24, 1932.
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 48-49, 1934.
Mosquitoes—Hudson Co., N.J.
 Donnelly, N.J. Mos. Exterm. Assoc. P. 20: 10-12, 1933.

Mosquitoes—Illinois (Ravinia Park)

- iClark, West. Soc. Engin. J. 35: 26-37, 1930.

Mosquitoes—Inspection work

- Leslie, N.J. Mos. Exterm. Assoc. P. 18: 130-138, 1931.

Mosquitoes—Investigations

- Gibson, Que. Soc. Prot. Pl. R. 23/24: 137-148, 1932.
 Headlee, N.J. R. 52: 139-178, 1931.
 Lipman, N.J. R. 55: 38-40, 1934.

- Miller, N.J. R. 50: 125-142, 1929; R. 51: 121-142, 1930.
 Pemberton, Hawaiian Sugar Pl. Assoc. P. 51: 589, 1932.
 Tulloch, Psyche 41: 201-210, 1934.
 Weir, Can. Min. Agr. R. f. 1930/1931, 137; R. f. 1931/1932: 178-179.
- Mosquitoes—Key**
 Riley & Johannsen, Med. Ent. 272-288, 1932.
 Tulloch, Psyche 37: 234-243, 1930.
 Amer. City, 46(5): 94, 1932.
- Mosquitoes—Laboratory technique**
 Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 26, 1932.
 Russell, Amer. J. Trop. Med. 11, 359, 1931.
- Mosquitoes—Larvae**
 iAncona, An. Univ. Nac. Mex. Inst. de Biol. 1: 33-37, 1930.
 bCampbell et al, J. Ec. Ent. 26: 500-509, 1933.
 biFrobisher & Shannon, Amer. J. Hyg. 13: 614-622, 1931.
 Ginsburg, N.J. R. 50: 130-131, 1929.
 Glover, J. Ec. Ent. 24: 896-898, 1931.
 Headlee, N.J. Mos. Exterm. Assoc. P. 18: 58-70, 1931.
 bHinnman, Amer. J. Hyg. 12: 238-270, 1930; 13: 224-236, 1933.
 bHinman, Ann. Ent. Soc. Amer. 26: 45-52, 1933.
 biRichardson & Shepard, J. Agr. Res. 41: 337-348, 1930.
 Pop. Mech. 55: 62, 1931.
- Mosquitoes—Larvae—Migration**
 Bishopp & Hart, Bklyn. Ent. Soc. B. 26: 88-90, 1931.
- Mosquitoes—Larvicides**
 Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 33-35, 1932.
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 52, 1934.
 Ginsburg, N.J. Agr. 15(4): 4, 1933.
 bGinsburg, N.J. Mos. Exterm. Assoc. P. 21: 121-128, 1934.
 iJohnson, Pub. Works 61: 120-122, '30.
 McNeel, N.J. Mos. Exterm. Assoc. P. 19: 95-96, 1932.
 Norris, Mil. Surgeon 68: 455-464, 1931.
 Turner, Conn. B. 349: 443-445, 1933.
 Vannote & Ginsburg, N.J. Mos. Exterm. Assoc. P. 18: 111-120, 1931.
 Indus. & Engin. Chem. News ed. 10: 245, 1932.
- Mosquitoes—Larvicides—Naphthalene**
 Turner, Conn. B. 349: 443-444, 1933.
 Turner, N.J. Mos. Exterm. Assoc. P. 20: 103-104, 1933.
- Mosquitoes—Larvicides—Kerosene and pyrethrum**
 Twinn, N.J. Mos. Exterm. Assoc. P. 18: 37-39, 1931.
- Mosquitoes—Larvicides—Oil**
 Ginsburg, N.J. R. 50: 132, 1929.
 Ginsburg, N.J. C. 291, 1933, 4p.
 Harris, Ind. St. Bd. Health Mo. B. 34: 129-130, 1931.
 Hodgkin, Pac. Sci. Cong. 5, P. 5: 3353-3354, 1934.
 iMail, Mont. B. 288: 63-68, 1934.
 Turner, Conn. B. 349: 443, 1933.
- Mosquitoes—Larvicides—Paradichlorobenzene**
 Turner, Conn. B. 349: 444, 1933.
- Mosquitoes—Larvicides—Pyrethrum**
 Ginsburg, N.J. R. 51: 130, 1930; R. 52: 176-177, 1931.
 Ginsburg, N.J. Mos. Exterm. Assoc. P. 21: 121-122, 1934.
 biGnadinger, Pyrethrum Flowers: 212-214, 1933.
 Smith, N.J. Mos. Exterm. Assoc. P. 19: 128-131, 1932.
 Turner, Conn. B. 349: 444, 1933.
 Turner, N.J. Mos. Exterm. Assoc. P. 20: 103-104, 1933.
 Williams, N.J. Mos. Exterm. Assoc. P. 19: 66, 1932.
- Mosquitoes—Larvicides—Red Arrow**
 Turner, Conn. B. 349: 444, 1933.
- Mosquitoes—Larvicides—Rotenone**
 Turner, Conn. B. 349: 443, 1933.
- Mosquitoes—Larvicides—Soap**
 Ginsburg, Science n.s. 79: 210, 1934.
- Mosquitoes—Live stock**
 Bishopp, Science n.s. 77: 115-116, 1933.
 Hammond, N.J. Mos. Exterm. Assoc. P. 18: 34-35, 1931.
- Mosquitoes—Long Island**
 iFisher, Nassau Co. Exterm. Comm. R. f. 1934. 24p.
 Jaques, N.J. Mos. Exterm. Assoc. P.

Mosquitoes—Long Island Cont'd

20: 105-106, 1933; P. 21: 118-121, 1934.

Mosquitoes—Maryland

Cory et al, Md. Ext. B. 73, 1934, 31p.

Symons, Md. Ext. R. 18: 63, 1933.

Symons, Md. Univ. & St. Bd. Agr.

Bien. R. f. 1930/1932: 99, 1933.

Mosquitoes—Massachusetts

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 29, 1932.

Forbes, N.J. Mos. Exterm. Assoc. P. 18: 157-166, 1931.

Gilbert, Mass. Dept. Agr. R. f. 1929/1930: 26-27.

Tulloch, Psyche 38: 38-40, 1931.

Wright, N.J. Mos. Exterm. Assoc. P. 21: 114-118, 1934.

Mosquitoes—Michigan

iMcDaniel, Mich. C. B. 144, 1932, 26p.

Mosquitoes—Montana

iMail, Mont. C. 143, 1933, 13p.

biMail, Mont. B. 288, 1934, 72p

Mosquitoes—Nassau Co., N.Y.

Butchard, N.J. Mos. Exterm. Assoc. P. 19: 131-133, 1932.

Sammis, N.J. Mos. Exterm. Assoc. P. 18: 121-124, 1931.

Mosquitoes—New Jersey

Austin, N.J. Mos. Exterm. Assoc. P. 21: 91-93, 1934.

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 29-30, 1932.

Brooks, N.J. Mos. Exterm. Assoc. P. 18: 150-155, 1931.

Donnelly, N.J. Mos. Exterm. Assoc. P. 20: 10-12, 1933.

iEngle, N.J. Mos. Exterm. Assoc. P. 20: 12-24, 112-115, 1933.

Headlee, N.J. Mos. Exterm. Assoc. P. 18: 40-49, 1931; P. 20: 33-59, 1933; P. 21: 8-37, 1934.

Headlee, N.J. R. 53-54: 36-38, 1933.

iJackson, N.J. Mos. Exterm. Assoc. P. 20: 59-63, 1933; P. 21: 80-81, 1934.

Johnson, N.J. Mos. Exterm. Assoc. P. 21: 88-89, 1934.

Lipman, N.J. R. 52: 30-31, 1931.

Miller, N.J. Dept. Ent. R. f. 1929: 125-142, 1930.

Miller, Ent. Soc. Ont. R. 60: 89-92, '30.

Miller, N.J. Mos. Exterm. Assoc. P. 18: 70-89, 1931; P. 19: 37-52, 1932.

Mulhern, N.J. Mos. Exterm. Assoc. P. 21: 93-96, 1934.

Peters, N.J. Mos. Exterm. Assoc. P. 20: 115, 1933.

Prickett, N.J. Mos. Exterm. Assoc. P. 18: 124-127, 1931.

Reily, N.J. Mos. Exterm. Assoc. P. 21: 89-91, 1934.

Van Derwerker, Union Co. Mos. Exterm. Comm. R. f. 1931, 25p.

Van Note, N.J. Mos. Exterm. Assoc. P. 21: 86-88, 1934.

Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 224-233, 1930.

Union Co. Mos. Exterm. Comm. R. f. 1933, 7p.

Mosquitoes—New Jersey—C.W.A.

Eager, N.J. Mos. Exterm. Assoc. P. 21: 82, 1934.

Flynn, N.J. Mos. Exterm. Assoc. P. 21: 77-78, 1934.

Peterson, N.J. Mos. Exterm. Assoc. P. 21: 78-79, 1934.

Potter, N.J. Mos. Exterm. Assoc. P. 21: 84-86, 1934.

Smith, N.J. Mos. Exterm. Assoc. P. 21: 69-75, 1934.

Van Derwerker, N.J. Mos. Exterm. Assoc. P. 21: 82-84, 1934.

Vannote, N.J. Mos. Exterm. Assoc. P. 21: 75-77, 1934.

Mosquitoes—New Jersey—Relation to Shore

Engle, N.J. Mos. Exterm. Assoc. P. 21: 153-155, 1934.

Mosquitoes—New York

Freston, N.J. Mos. Exterm. Assoc. P. 19: 102-105, 1932; 20: 107-108, '33.

Mosquitoes—North America

biMatheson, Mos. of North Amer., 1929, 268p.

Mosquitoes—Oregon

Marlatt, USDA Ent. R. f. 1932: 31-32.

Mosquitoes—Oviposition

Weinrich, Hawaiian Ent. Soc. P. 7: 358, 1931.

Mosquitoes—Panama

Dunn, Psyche 41: 170-172, 1934.

iShropshire, Mil. Surgeon 68: 769-776, 1931.

- Siler, Panama Canal Health Dept. R. f. 1932: 42-45, 1933.
- Mosquitoes—Parasites**
 Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 22, 1932.
 Twinn, N.J. Mos. Exterm. Assoc. P. 18: 35-37, 1931.
- Mosquitoes—Paris green**
 Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 34, 1932; P. 20: 87-88, 1933.
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 52, 1934.
- Mosquitoes—Poison dust**
 iPop. Mech. 55: 538, 1931.
- Mosquitoes—Predacious**
 Twinn, Can. Ent. 63: 52-55, 1931.
- Mosquitoes—Rainpool**
 Twinn, N.J. Mos. Exterm. Assoc. P. 18: 17-19, 1931.
- Mosquitoes—Raritan arsenal**
 Farlow, N.J. Mos. Exterm. Assoc. P. 18: 148-150, 1931.
- Mosquitoes—Rehoboth Beach area**
 Stearns, MacCreary & Newhouse, Del. B. 181: 97-102, 1933.
- Mosquitoes—Remedies and preventives**
 Howard & Bishopp, USDA FB 1570 rev. 1932, 12p.
- Mosquitoes—Repellents**
 Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 33, 1932.
 Dunn, Que. Soc. Prot. Pl. R. 25/26: 64-66, 1934.
 [Rudolfs], Pop. Sci. Month. 117(3): 48, 1930.
 La Hacienda 27: 238, 1932.
 USDA Off. Rec. 10: 230, 1931.
- Mosquitoes—Reservoirs**
 Constable, Amer. Water-works Assoc. J. 22: 399-402, 1930.
- Mosquitoes—Salt marsh**
 Twinn, N.J. Mos. Exterm. Assoc. P. 18: 20-22, 1931.
- Mosquitoes—Screening**
 iEarle, P.R. J. Pub. Health & Trop. Med. 8: 227-242, 1932.
 Fullerton, Amer. J. Pub. Health 21: 382-389, 1931.
 Tex. Dept. Health Form M. 52, 1931, 7p.
- Mosquitoes—Ship infestations**
 Tanner, U.S. Pub. Health R. 46: 2306-2320, 1931.
- Mosquitoes—Smoke screen**
 Pop. Mech. 54: 737, 1930.
- Mosquitoes—Snowpool**
 Twinn, N.J. Mos. Exterm. Assoc. P. 18: 10-15, 1931.
- Mosquitoes—Sodium arsenite**
 biHoskins, J. Ec. Ent. 25: 1212-1224, '32.
- Mosquitoes—Southeastern U.S.**
 Griffiths, N.J. Mos. Exterm. Assoc. P. 18: 100-111, 1931.
- Mosquitoes—Spraying**
 iFisher, Nassau Co. Exterm. Comm. R. f. 1934: 18-20.
 Holt, Mil. Surgeon 69: 625-627, 1931.
 Pop. Mech. 54: 86, 1930.
- Mosquitoes—Staten Island**
 Freston, N.J. Mos. Exterm. Assoc. P. 18: 127-130, 1931.
- Mosquitoes—Surveys**
 iBishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 1-6, 1933.
 Stearns & McCreary, Del. B. 179: 30-32, 1932.
- Mosquitoes—Surveys—Delaware**
 Stearns et al, Del. B. 188: 26-27, 1934.
- Mosquitoes—Surveys—Puerto Rico**
 iHayes, U.S. Nav. Med. B. 28: 194-222, 1930.
- Mosquitoes—Taxonomy**
 Bishopp, N.J. Mos. Exterm. Assoc. P. 20: 64-65, 1933.
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 38-40, 1934.
- Mosquitoes—Technique**
 Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 50, 1934.
- Mosquitoes—Tennessee Valley**
 Forbes [Mag.] 33: 14, Apr. 1, 1934.
- Mosquitoes—Traps**
 Bath, Amer. J. Trop. Med. 11: 147-150, 1931.
 iHeadlee, N.J. Mos. Exterm. Assoc. P. 19: 106-128, 1932.
 Headlee, N.J. R. 53-54: 37, 1933.
 Miller, N.J. Dept. Ent. R. f. 1929: 127-130, 1930.
 Miller, N.J. Mos. Exterm. Assoc. P. 18: 87-88, 1931.
 Miller, N.J. R. 52: 167-173, 1931.
 iMulhern, N.J. Mos. Exterm. Assoc. P. 21: 137-140, 1934.

Mosquitoes—Traps *Cont'd*

Stearns, MacCreary & Newhouse, Del.

B. 181: 23-65, 1933.

Turner, Conn. B. 349: 441-442, 1933.

Turner, N.J. Mos. Exterm. Assoc. P. 20, 103-105, 1933.

Extermin. Log 1(2): 11, 1933.

Mosquitoes—Traps—Electric

Cumming, Science n.s. 76(1978 sup.): 12, 1932.

Thomson, Science n.s. 75: 78-79, 1932.

Mosquitoes—Traps—Light

Miller, N.J. Mos. Exterm. Assoc. P. 18: 87-89, 1931.

Turner, Conn. B. 349: 441-443, 1933.

Mosquitoes—United States

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 29-30, 1932; P. 20: 80-86, 1933.

Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 55-67, 1934.

Gibson, Can. Ent. 63: 147-148, 1931.

Mosquitoes—Utah

Rees, Pan-Pac. Ent. 10: 161-165, 1934.

Mosquitoes—Virginia

iWilliams, Va. Health B. 26(11): 1-14, 1934.

Mosquitoes—Yosemite

Borell, Yosemite Nature Notes 12: 94-95, 1933.

Mosquitoes—Zooprophylaxis

Myers, Psyche 39: 34, 1932.

Mosquitoes Zootropism

bDavis & Philip, Amer. J. Hyg. 14(1): 130-141, 1931.

Mosquitoes and bats

iLe Prince, Hygeia 9: 327-329, 1931.

Mosquitoes and Chara

Matheson, Amer. Nat. 64: 56-86, 1930.

Matheson & Hinman, Amer. J. Hyg. 11: 174-188, 1930.

USDA Off. Rec. 10: 163, 1931.

Mosquitoes and clover

iLe Prince, Hygeia 9: 327-329, 1931.

Mosquitoes and disease

Chamberlain, 25 years Amer. Med. Activity Isth. Panama 1904-1929: 11-33, 1930.

iDoane, Common Pests: 37-48, 1931.

Feng, Soc. Exp. Biol. & Med. P. 32: 494-496, 1934.

Haysmer, Extermin. Log 2(8): 15, '34.

bHinman, Amer. J. Trop. Med. 13: 418-423, 1933.

iHoward, Insect Menace: 171-197, '31.

biMatheson, Med. Ent.: 198-298, 1932.

Rawson, Sci. Month. 39: 503-504, '34.

iRiley & Johannsen, Med. Ent.: 225-261, 1932.

Torrance, Hygeia 8: 723-726, 1930.

Mosquitoes and disease—Bird malaria

bHuff, Amer. J. Hyg. 15: 751-754, 1932.

Mosquitoes and disease—Black fever

bMatheson, Mos. of North Amer.: 52-53, 1929.

Mosquitoes and disease—Dengue fever

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 18-20, 1932.

Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 40-41, 1934.

Holt & Kintner, Amer. J. Trop. Med. 11: 103-111, 1931.

bMatheson, Mos. of North Amer.: 55-56, 1929.

R.A.K., J. Lab. & Clinical Med. 17: 396-397, 1932.

Riley & Johannsen, Med. Ent.: 258-259, 1932.

bSimmons et al, Amer. J. Trop. Med. 11: 199-216, 1931.

Mosquitoes and disease—Encephalitis

Sci. News Letter 24: 244, 1933.

Science n.s. 78(2027 sup.): 9, 1933.

Mosquitoes and disease—Equine encephalomyelitis

Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 46-47, 1934.

bBrueckner et al, Md. B. 369: 137-146, 1934.

Kelser, J. Amer. Vet. Med. Assoc. 82: 767-771, 1933.

Knowlton, Utah B. 250: 47, 1934.

Lytle, Oreg. Dept. Agr. B. 18: 19-20, 1933.

Mosquitoes and disease—Filariasis

Bishopp & Smith, N.J. Mos. Exterm. Assoc. P. 21: 45, 1934.

Mosquitoes and disease—Fowl pox

Beach, Vet. Med. 26: 47, 1931.

Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 20-21, 1932; P. 20: 66, 1933.

Kligler & Aschner, Soc. Exp. Biol. & Med. P. 28: 463-465, 1931.

- iMatheson et al, Poultry Sci. 10: 211-223, 1931.
- iMatheson et al, N.Y. St. Vet. Coll. R. f. 1931: 177-186, 1932.
- †Mosquitoes and diseases—Malaria**
- iBeeley, Sci. Month. 38: 223-230, 1934.
- Boyd & Stratman-Thomas, Amer. J. Hyg. 18: 482-484, 1933.
- Chamberlain & Curry, Panama Canal Health Dept. R. f. 1927: 17-21, 1930; R. f. 1928: 25-33, 1930.
- Clark & Dunn, Amer. J. Trop. Med. 11: 3-7, 1931.
- Geiger, Sci. News Letter 22: 40, 1932.
- iHall, North Amer. Vet. 15(5): 55-58, 1934.
- Hume, Science n.s. 74: 471, 1931.
- biKligler, Epidemiology of Malaria in Palestine (c1930), 240p.
- iMatheson, Mos. of North Amer.: 48-52, 1929.
- Mayne, Sci. Amer. 147: 312-313, 1932.
- Mayne, U.S. Pub. Health R. 48: 909-916, 1933.
- Norris, Mil. Surgeon 68: 455-464, 1931.
- O'Hara, La. Bd. Health Quar. B. 22(2): 8, 1931.
- Riley & Johannsen, Med. Ent.: 230-244, 1932.
- [Ross], Lit. Dig. 111: 36, Oct. 3, 1931.
- biRussell, Rockefeller Found. R. f. 1932: 66-96; R. f. 1933: 49-72.
- Shaw, Science n.s. 76: 566-567, 1932.
- Smith, Vet. Adm. Med. B. 10: 298-301, 1934.
- iStrong, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 198-203, 1930.
- iWatson, Med. Life 37: 226-245, 1930.
- Whitmore et al, United Fr. Co. Med. Dept. R. 18: 37-54, 1929.
- Mosquitoes and disease—Malaria—Longevity of infection**
- Cason & Boyd, J. Amer. Med. Assoc. 97: 1022-1023, 1931.
- Mosquitoes and disease—Onchocerciasis**
- Extermin. Log 2(7): 14, 1934.
- Mosquitoes and disease—Paresis**
- Mayne, Sci. News Letter 23: 307, 1933.
- Mayne, South. Med. J. 26: 456-458, 1933.
- Science n.s. 75 (1935 sup.): 8, 1932.
- Sci. News Letter 23: 307, 1933.
- Mosquitoes and disease—Plasmodium canthermerium**
- bShah, Roseboom & Rosario, Amer. J. Hyg. 20: 502-507, 1934.
- Mosquitoes and disease—Sleeping sickness**
- Science n.s. 78 (2023 sup.): 8, 1933.
- Mosquitoes and disease—Tularemia**
- Bishopp, N.J. Mos. Exterm. Assoc. P. 20: 67, 1933.
- bPhilip, Davis & Parker, U.S. Pub. Health R. 47: 2077-2088, 1932.
- Philip et al, Sci. News Letter 22: 303, 1932.
- Mosquitoes and disease—Yellow fever**
- Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 17-18, 1932; P. 20: 65-66, 1933; P. 21: 40-41, 1934.
- bDavis, Lloyd & Frobisher, J. Exp. Med. 56: 853-865, 1932.
- bDavis & Shannon, Amer. J. Hyg. 11: 335-344, 1930.
- Davis & Shannon, Amer. J. Trop. Med. 11: 21-29, 1931.
- iHall, North Amer. Vet. 15(5): 55-58, '34.
- iHoward & deKruif, Time 23(12): 35-37, 1934.
- Hume, Science n.s. 74: 469-471, 1931.
- Ireland, Mil. Surgeon, 68: 729-731, '31.
- bKumm & Frobisher, Amer. J. Trop. Med. 12: 349-361, 1932.
- bMason, Rockefeller Found. R. f. 1931: 43-48.
- bMatheson, Mos. of North Amer.: 53-55, 1929.
- Philip, Amer. J. Trop. Med. 10: 1-16, 1930.
- bPhilip, Science n.s. 71: 614-615, 1930; 72: 578, 1930.
- Riley & Johannsen, Med. Ent.: 245-258, 1932.
- biRussell, Rockefeller Found. R. f. 1932: 31-66; R. f. 1933: 22-49.
- bSellards, Amer. J. Trop. Med. 12: 79-92, 1932.
- Smith, U.S. Pub. Health R. 46: 1357-1358, 1931.
- Soper, J. Amer. Med. Assoc. 102: 553, 1934.
- Mosquitoes and drainage**
- Cowper, N.C. Health B. 48(7): 8-10, 1933.

Mosquitoes and drainage *Cont'd*

- Darnall, Atlantic Co. Mos. Extermin.
Comm. R. f. 1929: 2-3; R. f. 1930:
2-3; R. f. 1931: 2-3; R. f. 1932: 2-3;
R. f. 1934: 2-3.
Dove & Hall, J. Parasit. 20: 337-338,
1934.
iFisher, Nassau Co. Exterm. Comm.
R. f. 1934: 8-11.
Miller, N.J. R. 52: 166-173, 1931.
Sanborn, Okla. R. f. 1932/1934: 279-
283, 1934.
iShaffer, Explosives Engineer 9: 248-
249, 1931.
USDA YB f. 1934: 87.

Mosquitoes and drainage—Alabama

- iBradley, N.J. Mos. Exterm. Assoc. P.
21: 100-102, 1934.

Mosquitoes and drainage—California—CWA

- iHermes, J. Ec. Ent. 27: 1021-1026, '34.

Mosquitoes and drainage—Cape Cod

- Myhre, N.J. Mos. Exterm. Assoc. P.
19: 79-81, 1932.

Mosquitoes and drainage—Connecticut

- Botsford, Conn. B. 349: 439-441, 1933.
Botsford, N.J. Mos. Exterm. Assoc. P.
20: 102-103, 1933.

- Britton & Botsford, N.J. Mos. Exterm.
Assoc. P. 19: 52-56, 1932.

Mosquitoes and drainage—Florida

- iKing, N.J. Mos. Exterm. Assoc. P. 21:
96-100, 1934.

Mosquitoes and drainage—Georgia

- Clarkson, South. Med. J. 26: 461-465,
1933.

Mosquitoes and drainage—Illinois (Ravinia Park)

- iClark, West. Soc. Engin. J. 35: 26-37,
1930.

Mosquitoes and drainage—Massachusetts

- iWright, Bost. Soc. Civil Engin. J. 18:
307-327, 1931.

Mosquitoes and drainage—Mississippi

- Bradley, N.J. Mos. Exterm. Assoc. P.
21: 100-102, 1934.
Rector, South. Med. J. 26: 458-461,
1933.

Mosquitoes and goldfish

- Howell, Amer. Home 7: 58, 1932.
Tricker, Amer. Home 8: 65, 1932.

Mosquitoes and human welfare

- Hinman, Ann. Ent. Soc. Amer. 25:
615-623, 1932.

- iKrysto, Sci. Amer. 142: 270-272, 1930.

- biMatheson, Mos. of North Amer.: 45-
58, 1929.

- biMatheson, Med. Ent.: 247-273, 1932.

Mosquitoes and hydroelectric projects

- iFoster, Sci. Month. 37: 522-530, 1933.

Mosquitoes and legumes

- iLePrince, Hygeia 9: 328, 1931.

Mosquitoes and rainfall

- Ginsburg, N.J. R. 50: 131, 1929.

- Miller, N.J. R. 51: 126-127, 1930; R.
52: 165, 1931.

- Miller, N.J. Mos. Exterm. Assoc. P. 19:
37-52, 1932.

Mosquitoes and seashore business

- Engle, N.J. Mos. Exterm. Assoc. P. 20:
12-24, 1933.

Moss insects

- Larson & Hinman, P. Ent. Soc. Wash.
34: 43-44, 1932.

Moss mites, *see* Oribatoidea***Mossy rose gall, *see* Rhodites rosae (L.)****Moth proofing**

- Back & Cotton, J. Ec. Ent. 23: 1014,
1930.

- Dessow, Amer. Dyestuff Report 22:
285-288, 332, 1933.

- Fairbrother, Soap 7(9): 97, 99, 101,
103, 111, 1931.

- Jackson, Indus. & Engin. Chem. 22:
398-399, 1930.

- King & Glen, Can. Dept. Agr. Ent.
Bur. Saskatoon Leaf. 39, 1934.

- Milburn, Pictorial Rev. 34(8): 44, 1933;
35(8): 41, 1934.

- iMoore, Indus. & Engin. Chem. Anal.
Ed. 2: 365-368, 1930.

- Parks & Jones, Ohio Ext. B. 97 rev.: 17:
1933.

- Roark, Textile Colorist, 52: 25-28,
1930; 53: 301-305, 1931; 54: 369-
374, 1932.

- Sachs, J. Tech. Assoc. Fur. Ind. 1: 103-
111, 1930.

- Sturhahn, Soap 7(6): 103, 105, 1931.

Mothonia ocella

- inForbes, N.Y. Acad. Sci. Sci. Surv. P.R.
12: 131-132, 1930.

Moths

- iAllen, Nature Mag. 18: 79-81, 1931.
 iHenrich, PUSNM 79(13), 1931, 16p.
 iKlots, Psyche 38: 36-37, 1931.

Moths—Collecting gun

- iGunder, Bklyn. Ent. Soc. B. 25: 208, 1930.

Moths—Dye

- Ritchey, Sci. News Letter 23: 315, '33.

Moths—Electric light

- Swezey, Hawaiian Ent. Soc. P. 7: 421-422, 1931.

Moths—Golgi bodies

- biGatenby, Biol. B. 60: 409-415, 1931.

Moths—Spreading board

- Roberts, Ent. News 42: 256-257, 1931.

Moths—Marking

- Brower, Ent. News 41: 44-46, 1930.

Moths—Protein

- biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.

Moths—Traps

- Durston, Better Fruit 25(9): 11, 1931.

Moths in furniture

- iBack & Cotton, USDA FB 1655 rev.: 1931, 32p.
 iParks & Jones, Ohio Ext. B. 97 rev.: 12-19, 1933.

Motion pictures—Entomology—1934

- USDA Misc. Pub. 208: 29-31, 1934.

Mottled gray cutworm, see *Lampra alternata***Mound-building prairie ant, see *Pogonomyrmex occidentalis*****Mountain dry-wood termite, see *Kaloterms marginipennis******Mountain pine beetle, see *Dendroctonus monticolae* Hopk.****Mountain silverspot, see *Argynnis atlantis******Mourning-cloak butterfly, see *Hamadryas antiopa* (L.)****Mourning horse-fly, see *Tabanus atratus*****Mouse louse, see *Polyplax serratus*****Mouth parts of insects, see *Insects—Mouth parts*****Mud-dauber wasp, see *Sceliphron caementarium*****Mulberry insects**

- bClausen, USDA C. 168: 30-33, 1931.

Mulberry whitefly, see *Tetraleurodes mori* Quaint.**Mumfordia spinata, tuberculata***

- inVan Dyke, Bernice P. Bishop Mus. B. 98: 237-238, 1932.

†*Murgantia histrionica* (Harlequin bug)*

- Blatchley, Trans. Amer. Ent. Soc. 60: 4, 1934.

- Brooks & McDowell, Tex. C. 70: 6-7, 1934.

- Burdette, N.J. St. Hort. Soc. P. f. 1931: 154-155.

- Compton, Ill. C. 391: 11-12, 1932.

- Davis, Ind. Ext. B. 186: 19, 1932.

- Fulton, N.C. R. 52: 120-121, 1929; 53: 156, 1930; 54: 110-111, 1931; 56: 75, 1933.

- iGilbert & Popence, USDA FB 1371 rev.: 18, 1930.

- Lockwood, Cal. Agr. Mo. B. 22: 280, 1933.

- Lutken, S.C. Wkly. News Notes 19(10): 1930.

- Marcovitch, Tenn. R. 45: 34, 1932.

- biMex. Agr. & Fomento. Principales Plagas: 191-192, 1930.

- iSanderson, Ins. Pests Farm ed. 3: 199-202, 1931.

- Sherwood, W.Va. Ext. C. 305: 13, 1934.

- Skinner & Coleman, Ind. Ext. R. 22: 50, 1933.

- Stoutamire, Fla. Dept. Agr. B. n.s. 44: 17, 1930.

- Torre Bueno, Bklyn. Ent. Soc. B. 27: 18, 1932.

- Walker & Anderson, Peninsula Hort. Soc. Trans. 46: 22-24, 1932.

- Walker & Anderson, J. Ec. Ent. 26: 129-135, 1933; 27: 388-393, 1934.

- Wallace et al, Ind. Dept. Conserv. R. 14: 53, 1932.

- iWatson, Fla. B. 232: 45-46, 1931.

- iWhite & Brannon, USDA FB 1712; 1933, 10p.

- Wurtele, Market Grow. J. 52: 15, 1933.

***Murgantia histrionica*—Parasites**

- White & Brannon, USDA FB 1712: 5, 1933.

***Musca*—Blood-sucking species**

- bPatton, Pac. Sci. Cong. 5, P. 5: 3361-3366, 1934.

Musca conducens

- bPatton, Pac. Sci. Cong. 5, P. 5: 3362-3366, 1934.

Musca crassirostris

bPatton, Pac. Sci. Cong. 5, P. 5: 3363-3366, 1934.

†Musca domestica L. (Housefly)*

Ball, Can. Pub. Health J. 22: 296-298, 1931.

Bishopp, Rev. Unidas 46(8): 29-30, '30.

biBissell, Ga. C. 102: 1934. [4p.]

iBrittain, J. Agr. & Hort. 36: 25, 1932.

Buchanan & Stevenson, Iowa R. f. 1933: 74.

Caler, J. Kans. Ent. Soc. 4: 88-93, '31.

bCook, U.S. Nav. Med. B. 32: 241-244, 1934.

Crawford, La Hacienda 25: 176-178, 1930.

Ford & Covert, S.Dak. Ext. C. 320: 10-11, 1933.

Gwin, Extermin. Log 2(12): 11, 1934.

iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 4-9, 1934.

Hiestand, Ind. Acad. Sci. P. 41: 433-437, 1932.

iHodgkiss & Smith, Penn. Ext. C. 140: 2-5, 1931.

Illingworth, Hawaiian Ent. Soc. P. 7: 462-464, 1931.

Keifer, Cal. Agr. Mo. B. 19: 577, 1930.

Klinefelter, Missouri Farm. 26: 166, 1934.

Laake et al, USDA TB 270: 2-10, 1931.

iLichtenberg, Extermin. Log 1(7): 10-11, 1933.

McDaniel, Mich. C. B. 144: 3-5, 1932.

biMarcovitch, Tenn. B. 147: 8-10, 1933.

biMarcovitch & Anthony, J. Ec. Ent. 24: 490-496, 1931.

biMatheson, Med. Ent.: 98-103, 345-374, 385-386, 1932.

iMatheson, N.Y. Ext. News 13: 39-40, 1930.

biMelvin, Ann. Ent. Soc. Amer. 27: 406-410, 1934.

biMex. Agr. & Fomento. Principales Plagas: 240-241, 1930.

Neiva & Gomez, P.R. Rev. de Agr. 24: 105, 1930.

iParks & Jones, Ohio Ext. B. 97 rev.: 7-8, 1933.

bPearson & Richardson, J. Ec. Ent. 26: 486-493, 1933.

iRichardson, Iowa YB Agr. 32: 32, 1931.

Richardson, Iowa R. f. 1932: 59; R. f. 1934: 96.

iSanderson, Ins. Pests Farm ed. 3: 530-535, 1931.

Sherman, S.C. Wkly. News Notes 18(47): 1930.

Siler, Panama Canal Health Dept. R. f. 1930: 73, 77, 1931.

iSnodgrass, Smithsonian. Sci. Ser. 5: 342-348, 1930.

iThone, Sci. News Letter 23: 111, 1933.

Twinn, Ent. Soc. Ont. R. 65: 128, 1934.

Van Es & Olney, Neb. B. 290: 103, '34.

bWalker, Va. Truck B. 75: 968-969, '31.

Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 237-238, 1932.

Musca domestica—Eggs in human intestine

Smith, South. Med. J. 23: 576-579, '30.

Musca domestica—Parasites

Vandenbergh, Guam R. f. 1930/1932: 22, 1933.

Musca domestica—Rearing

iFoster, Nat. Petrol. News 22(29): 63-64, 67, 1930.

iHockenyos, J. Ec. Ent. 24: 717-725, 1931.

Richardson, Science n.s. 76: 350-351, 1932.

Richardson, Sci. News Letter 22: 255, 1932.

Tischler, J. Ec. Ent. 24: 559, 1931.

Musca domestica—Traps

iBishopp, USDA FB 734 rev. 1930, 14p.

Musca domestica and sewage

bHerms, Sewage Work J. 2: 115-119, 1930.

Musca domestica and temperature

bWalker, Va. Truck B. 75: 968-969, '31.

Musca fletcheri 3364, **inferior** 3364, **mesopotamiensis** 3362-3366

bPatton, Pac. Sci. Cong. 5, P. 5: 1934.

Musca pilosa

Aldrich, P. Ent. Soc. Wash. 33: 117-118, 1931.

Musca planiceps, senior-whitei

bPatton, Pac. Sci. Cong. 5, P. 5: 3363-3365, 1934.

Muscidae

Curran, Amer. Mus. Nov. 738: 1934, 7p.

Malloch, PUSNM 78(15): 1931, 32p.

- Townsend, J. N.Y. Ent. Soc. 40: 439-479, 1932.
- Muscidae—British Museum**
bHuckett, Can. Ent. 66: 132-140, 1934.
- Muscidae and disease**
Riley & Johannsen, Med. Ent.: 380, 1932.
Krijgsman, Pac. Sci. Cong. 5, P. 5: 3357-3358, 1934.
- Muscina pascuorum**
Stear, Psyche 37: 175, 1930.
- Muscina stabulans Fall. (False stablefly)***
MacAloney, N.Y. St. Col. For. B. 3(1): 53, 1930.
McDaniel, Mich. C. B. 144: 9-10, 1932.
biMatheson, Med. Ent.: 386-389, 1932.
- Muscoidea**
Aldrich, P. Ent. Soc. Wash. 34: 23-25, 1932.
biMelvin, Ann. Ent. Soc. Amer. 27: 406-410, 1934.
bRoberts, Ann. Ent. Soc. Amer. 23: 784-792, 1930.
- Museum beetle, see Anthrenus museorum**
- Museum insects**
Anderson, Can. Dept. Mines Nat. Mus. B. 69: 14, 67, 1932.
Hoffman, J. Ec. Ent. 26: 293-294, 1933.
- Mushroom insects**
Davis, P. Ent. Soc. Wash. 36: 269, '34.
iDavis & Young, J. Ec. Ent. 27: 518-525, 1934.
iEssig & Hoskins, Cal. Ext. C. 87: 61-62, 1934.
bFolsom, J. Ec. Ent. 26: 936, 1933.
iGahm, J. Ec. Ent. 23: 744-747, 1930.
Gahm, J. Wash. Acad. Sci. 20: 384-388, 1930.
Gahm, USDA Off. Rec. 9(31): 12, 1930.
iGahm, USDA YB f. 1931: 396-398.
bHaseman & Ezell, J. Ec. Ent. 27: 1189-1191, 1934.
Lambert, USDA C. 251: 27-28, 1932.
Marlatt, USDA Ent. R. f. 1930: 30-31; R. f. 1933: 23.
Mumford, Ill. R. 46: 156-158, 1933.
biSteiner, J. Agr. Res. 46: 427-435, 1933.
Thomas, Penn. St. Col. B. 258: 37-38, 1930; B. 279: 16, 1932.
Thomas, Penn. B. 266: 31, 1931; B. 293: 21-22, 1933; B. 308: 22-23, '34.
biThomas, Penn. B. 270, 1931, 42p.
- Thomas, J. Ec. Ent. 25: 322-331, 1932.
Thomas, J. Ec. Ent. 27: 200-208, 1934.
- Mushroom maggot, see Sciara spp.**
- Mushroom mite, see Histiostoma gracilipes**
- Muskmelon insects**
Beattie, USDA FB 1468 rev.: 22-27, 1930.
Wilkinson, Conn. (Storrs) Ext. B. 196: 24, 1933.
- Mutillioidea**
Muesebeck, P. Ent. Soc. Wash. 35: 53-54, 1933.
- Muzoa madida**
inRehn, Trans. Amer. Ent. Soc. 56: 52-55, 1930.
- Mycetophila caudata**
Johannsen, Bklyn. Ent. Soc. B. 29: 149, 1934.
- Mycetophila (Opistholoba) ocellata, see Mycetophila caudata**
- Mycetophilidae**
inFisher, Can. Ent. 66: 276-278, 1934.
McDaniel, Mich. Sp. B. 214: 87-88, 1931.
Thompson, Ent. Soc. Ont. R. 60: 96-99, 1930.
- Mydaea trisetata**
nCurran, Amer. Mus. Nov. 492: 13, '31.
- Mydas clavatus**
iJahn, Ohio J. Sci. 30: 85-151, 1930.
- Mydas fly, see Mydas clavatus**
- Mydas perpolitus**
nJohnson, Psyche 39: 72, 1932.
- Myelois venipers Dyar (Naval orange worm)***
Fleury, Cal. Agr. Mo. B. 19: 829, 1930.
Hixson, J. Ec. Ent. 27: 547, 1934.
Jacobsen, Cal. Agr. Mo. B. 19: 829, '30.
Lockwood, Cal. Agr. Mo. B. 20: 655-660, 1931.
- Myiophasia globosa**
Arant, Ala. Poly. R. 44: 28-29, 1933.
- Myiabris (Bruchus) atomus**
Frost, Bklyn. Ent. Soc. B. 26: 3, 1931.
- Myiabris limbatus**
Bryan, Hawaiian Ent. Soc. P. 8: 3, '32.
- Myiabris mimus**
Knull, Ent. News 45: 211, 1934.
- Myiabris obtectus, see Acanthoscelides obtectus**
- Myiabris pisorum, see Bruchus pisorum**

- Mylabris wheelocki**
nBlatchley, Can. Ent. 62: 35, 1930.
- Myrmoridae**
Whittaker, P. Ent. Soc. Wash. 33: 189-192, 1931.
- Myndus spp.**
nBall, J. Wash. Acad. Sci. 23: 478-484, 1933.
- Myobia musculi**
biSkidmore, Can. Ent. 66: 110-115, 1934.
- Myochrous floridanus**
nSchaeffer, J. N.Y. Ent. Soc. 41: 472-473, 1933.
- Myochrous longulus**
Frost, Bklyn. Ent. Soc. B. 25: 146, '30.
- Myochrous novallus**
nJohnson, Can. Ent. 63: 148, 1931.
- Myochrous pauxillus**
nSchaeffer, J. N.Y. Ent. Soc. 41: 473, '33.
- Myoleja**
biBenjamin, USDA TB 401: 20-22, 1934.
- Myriapoda**
bAdamson, Bernice P. Bishop Mus. B. 98: 225-232, 1932.
Chamberlain, Pan-Pac. Ent. 6: 111-121, 1930.
Cornwell, Elisha Mitchell Sci. Soc. J. 49: 289-291, 1934.
biRiley & Johannsen, Med. Ent.: 97-101, 1932.
- Myrmarachne spp.**
inBanks, Psyche 37: 207-218, 1930.
- Myrmecia spp.**
Tulloch, Psyche 39: 48-51, 1932.
Wheeler, Science n.s. 76: 533, 1932.
ibWheeler, Colony-founding Among Ants: 16-74, 1933.
Wheeler, Psyche 40: 41, 1933.
- Myrmecina graminicola americana**
Beardley, Col.-Wyo. Acad. Sci. J. 1(5): 88, 1933.
- Myrmecocystus hortideorum**
iHarris, Nat. Geog. Mag. 66: 193-199, 1934.
- Myrmecocystus melliger semirufus**
Cole, Ent. News 45: 100, 1934.
- Myrmecophila oregonensis**
Buckell, B.C. Ent. Soc. P. 27: 50-51, 1930.
- Myrmecophilous insects**
inBueker, Amer. Mus. Nov. 453: 1931. 3p.
- iBusck, P. Ent. Soc. Wash. 36: 243-252, 1934.
Jones, Col.-Wyo. Acad. Sci. J. 1(5): 84-85, 1933.
- biPark, Ann. Ent. Soc. Amer. 26: 255-261, 1933.
- Myrmeleon formicarius**
iPeña. La Hacienda 25: 74, 1930.
- Myrmeleon immaculatus**
biSmith, J. Kans. Ent. Soc. 7: 136-137, 1934.
- Myrmeleon insertus**
Smith, Ann. Ent. Soc. Amer. 24: 817-818, 1931.
- Myrmeleon wrighti**
inBanks, Psyche 37: 189-190, 1930.
- Myrmeleonidae (Doodle-bugs, Ant lions)**
iCrowe, Yosemite Nature Notes 9: 98, 1930.
McClendon, Science n.s. 76: 81-82, '32.
biPickwell, Cal. Teach. Coll. Insects: 153-154, 1932.
biWheeler, Demons of the Dust: 80-141, 1930.
- Myrmeleonidae—Key**
Smith, J. Kans. Ent. Soc. 7: 137-140, 1934.
- Myrmex spp.**
nVan Dyke, Pan-Pac. Ent. 6: 151-153, 1930.
- Myrmica (Manica) parasitica**
bnCreighton, Psyche 41: 186-189, 1934.
- Myrmica rubra scabrinodis sabuleti**
Yothers, USDA TB 402: 36, 1934.
- Myrmica rugosa**
Wheeler, N.Eng. Zool. Club. P. 11: 95, 1930.
- Myrmica schencki spatulata**
inSmith, Ann. Ent. Soc. Amer. 23: 566-567, 1930.
Smith, Ent. News 41: 21, 1931.
- Myrmica dakotensis**
nWeber, Psyche 41: 57-59, 1934.
- Myrmoteras spp.**
inCreighton, J. N.Y. Ent. Soc. 38: 177-192, 1930.
- Mysoria acastus**
Bell, Amer. Mus. Nov. 555: 2-3, 1932.
- Mysticomenus tibialis**
Swezey, Hawaiian Ent. Soc. P. 7: 368, 1931.

- Myzocallis alni**
 Miller, Ent. News 44: 106-107, 1933.
- Myzocallis coryli**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 888-889, 1931.
- Myzocallis discolor**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 889-890, 1931.
 Miller, Ent. News 44: 106-107, 1933.
- Myzocallis fumipennis (Black pecan aphid)**
 bDemaree & Large, Southeast. Pecan Grow. Assoc. P. 28: 27-28, 1934.
 Gill, Ga. St. Ent. B. 77: 41-42, 1933.
 Marlatt, USDA Ent. R. f. 1930: 10-11.
 Moznette, Ga.-Fla. Pecan Grow. Assoc. P. 27: 45-46, 48, 1933.
 iMoznette et al, USDA FB 1654: 37-39, 1931.
- Myzocallis punctata**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 890-891, 1931.
- Myzocallis robiniae**
 Bartholomew, Ann. Ent. Soc. Amer. 25: 726, 1932.
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 891, 1931.
- Myzocallis tiliae**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 891-892, 1931.
- Myzocallis trifolii**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 892-893, 1931.
- Myzocallis ulmifolii (Elm leaf aphid)**
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 893-894, 1931.
- Myzus—Key**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 200-201, 1934.
- Myzus cerasi (F.) (Black cherry aphid)***
 iCaesar, Ont. B. 356: 61-62, 1930.
 Crosby, N.Y. Hort. Soc. P. 77: 13-14, 1932.
 Felt & Bromley, J. Ec. Ent. 24: 107, 1931.
 biHartzell, N.Y. (Gen.) B. 637: 1933, 23p.
 Hartzell, Conn. Pom. Soc. P. 44: 94-106, 1934.
 Hartzell, Farm Res. 1(3): 5, 9, 1934.
 Hutson, Mich. Sp. B. 244: 12-13, 1933.
 Hutson, Mich. St. Hort. Soc. R. 62: 76, 1933.
- iKnowlton & Sorenson, Utah Leaf 45, 1934. [2p.]
- iNewcomer, USDA C. 270: 45, 1933.
 Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 16.
- iQuaintance & Siegler, USDA FB 1666: 82, 1931.
 Ross, Can. Hort. Fr. & Truck ed. 53: 33, 1930.
 Ross, Ent. Soc. Ont. R. 62: 54, 1932.
- iStrand, Mont. B. 294: 34-35, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 69, 1933;
 R. 65: 118, 1934.
- Myzus circumflexus**
 Walden, Conn. B. 338: 594, 1932.
- Myzus fragaefoliae, see Capitophorus fragaefoliae**
- †**Myzus persicae (Green peach aphid)***
 Barrus & Crosby, N.Y. (C.) Ext. B. 288: 26, 1934.
 Beattie, USDA FB 1431 rev.: 20, 1930.
 iBurdette & Headlee, N.J. C. 311: 4, '34.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 42-43, 1933; Ext. B. 278: 19, 35, 36, 79, 1934.
 Drake, Iowa R. f. 1934: 95-96.
 Dustan, Can. Dept. Agr. Ent. B. 32: 40, 1932.
 Gould, Va. Truck B. 71: 812-815, 1930.
 iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 339-340, 1931.
 iHuckett, N.Y. (Gen.) C. 128: 1932, 7p.
 Koch, Science n.s. 73: 615, 1931.
 McClintock, Phytopath. 21: 382-383, 1931.
 McDaniel, Mich. Sp. B. 214: 50-51, 1931.
 iNewcomer, USDA C. 270: 50, 59-60, 1933.
 Ross & Putman, Ent. Soc. Ont. R. 64: 38-39, 1933.
 Thompson, J. Ec. Ent. 27: 549, 1934.
 Watson, Fla. B. 232: 41-44, 1931.
- Myzus persicae and plant diseases**
 bClayton, N.Y. (Gen.) TB 590: 8, 1931.
 bCleveland, Ind. B. 351: 14-24, 1931.
 Elze, Phytopath. 21: 675-686, 1931.
 Heald, Man. of Pl. Dis. ed. 2: 295, 309, 1933.
 Hoggan, Phytopath. 21: 211, 1931; 23: 447-474, 1933.
 biHoggan, J. Agr. Res. 47: 689-704, 1933.

- Myzus persicae** and plant diseases *Cont'd*
 biKunkel, Que. Soc. Prot. Pl. R. 25/26: 29, 1934.
 bStewart & Glasgow, N.Y. (Gen.) TB 171, 1930, 21P.
 Valleau, Ky. B. 327: 102-103, 1932.
 Young & Morris, Mont. B. 231: 15, '30.
- Myzus persicae-niger**, *see* **Anuraphis persicae-niger**
- Myzus porosus**
 iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 340-343, 1931.
- Myzus ribis**, *see* **Capitophorus fragaefoliae**
- Myzus solani**
 Bartholomew, Ann. Ent. Soc. Amer. 25: 727, 1932.
 biHoggan, J. Agr. Res. 47: 689-704, 1933.
- Myzus thomasi**
 inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 343-344, 1931.
- Nabidae**
 Harris, Carnegie Mus. Ann. 19: 241-248, 1930.
- Nabis ferus**
 biKnowlton, Utah B. 234: 45-46, 1932.
 Knowlton, Utah Acad. Sci. P. 11: 261-262, 1934.
- Nabis longipes**
 nVan Duzee, Bernice P. Bishop Mus. B. 98: 188-189, 1932.
- Nabis (Nabis) major**
 iBarber, P. Ent. Soc. Wash. 34: 66, '32.
- Nabis mumfordi, plicatulus**
 nVan Duzee, Bernice P. Bishop Mus. B. 98: 187-190, 1932.
- Nabis seticrus**
 nHarris, Carnegie Mus. Ann. 19: 247-248, 1930.
- Nacoleia scotaea**
 Swezey, Hawaiian Ent. Soc. P. 7: 360, 1931.
- Nailhead scale**, *see* **Chrysomphalus aonidum**
- Nannoparce balso**
 nSchaus, J. Wash. Acad. Sci. 22: 140, 1932.
- Nannothemis bella**
 bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 260, 1930.
- Nantucket pine moth**, *see* **Rhyacionia frustrana**
- Napaea spp.**
 Cresson, Trans. Amer. Ent. Soc. 56: 106-111, 1930.
 nCresson, Ent. News 44: 68-69, 1933.
 nCresson, Trans. Amer. Ent. Soc. 60: 212-213, 1934.
- Napomyza chrysanthemi (Marguerite fly)**
 Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 32, 1930.
- Naranga aenescens**
 bClausen, USDA C. 168: 49, 1931.
- *Narcissus bulb fly**, *see* **Merodon equestris**
- Narcissus bulb-pests**
 Newton, Hastings & Bosher, Flor. Rev. 70(1806): 15-16, 1932.
- Narcissus bulb—Quarantine**
 Hoyt, USDA BPQ R. f. 1934: 34.
 Strong, USDA PQCA R. f. 1930: 45; R. f. 1931: 47-48; R. f. 1932: 30.
 Strong, USDA SRA BPQ 112: 71, 1932.
 Strong, USDA BPQ R. f. 1933: 30-31.
 J. Ec. Ent. 26: 521, 1933.
- Narcissus insects**
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 59-61, 1934.
 biLatta, J. Ec. Ent. 25: 1020-1026, 1932.
 Pyrke, N.Y. Dept. Agr. & Markets R. f. 1929: 74-76, 1930; R. f. 1930: 61-62, 1931.
- Narcissus nematode**, *see* **Ditylenchus dipsaci**
- Narnia pallidicornis**
 Hamlin, Ann. Ent. Soc. Amer. 25: 99-100, 1932.
- Narvesus minor**
 nBarber, Ent. Amer. n.s. 10: 224, 1930.
- Nascus spp.**
 inWilliams, Trans. Amer. Ent. Soc. 59: 11-12, 1933.
 iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 123-132, 1934.
- Nasiaeschna penthacantha**
 bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 256, 1930.
 Hiestand, Ind. Acad. Sci. P. 40: 345-346, 1931.
 biHiestand, Physiol. Zool. 4: 246-256, 1931.
- Nastinus auriquadrum**
 Smyth, J. Kans. Ent. Soc. 7: 119, 1934.
- Nasutitermes—Polymorphism**
 Hare, J. Morph. 52: 593-607, 1931.

- Nasutitermes (Rotunditermes) anama-laiensis**
in Snyder, PUSNM 82(16): 11-12, 1933.
- Nasutitermes (Tenuirostritermes) cinereus**
Light, Pan-Pac. Ent. 10: 159-160, '34.
- Nasutitermes (?) colimae**
bin Light, Cal. Univ. Pub. Ent. 6(5): 129-131, 1933.
- Nasutitermes cornigera**
Bates, Fla. Ent. 17: 31, 1933.
- Nasutitermes costalis**
bi Wolcott, Ec. Ent. of West Indies: 202-204, 1933.
- Nasutitermes (Nasutitermes) fletcheri**
Snyder, PUSNM 82(16): 10-11, 1933.
- Nasutitermes (Subulitermes) gardneri**
in Snyder, PUSNM 82(16): 12-13, 1933.
- Nasutitermes (Subulitermes) mexicanus**
bin Light, Cal. Univ. Pub. Ent. 6(5): 123-126, 1933.
- Nasutitermes (Nasutitermes) myersi**
in Snyder, P. Biol. Soc. Wash. 46: 161-166, 1933.
- Nasutitermes (Nasutitermes) nigriceps**
bi Light, Cal. Univ. Pub. Ent. 6(5): 114-123, 1933.
- Nasutitermes (?) pictus**
bin Light, Cal. Univ. Pub. Ent. 6(5): 127-129, 1933.
- Nasutitermes (Tenuirostritermes) tenuirostris**
bi Light, Cal. Univ. Pub. Ent. 6(5): 131-132, 1933.
- Nasutoideus spp.**
n Ball, Can. Ent. 63: 219-226, 1931.
Ball, Can. Ent. 64: 254-255, 1932.
- Natal fly, see Pterandrus rosa**
- Natholis iole**
Berry, Ent. News 45: 252-253, 1934.
- *Native elm bark beetle, see Hylurgopinus rufipes (Eich.)**
- Nautilidas**
n Rehn, Trans. Amer. Ent. Soc. 56: 58-59, 1930.
- Nausibius clavicornis**
Swezey, Hawaiian Ent. Soc. P. 8: 218, 1933.
- Nautical borer, see Xylotrechus nauticus**
- *Naval orange worm, see Myelois venipars**
- Neanura persimilis**
in Mills, Collembola of Iowa: 30, 1934.
- Neaphaenops intermedius**
in Valentine, Elisha Mitchell Sci. Soc. J. 46: 249, 1931.
- Neaspilota, N. dolosa, punctistigma**
bin Benjamin, USDA TB 401: 34-40, 1934.
- Nebraska bee-killer, see Promachus fitchii**
- Nebria appalachia, paradisi**
n Darlington, Psyche 38: 24, 153-155, 1931.
- Nebria vandykei**
n Darlington, Psyche 37: 104-105, 1930; 38: 24, 1931.
- Necaxa, N. micans**
n Trans. Amer. Ent. Soc. 58: 290-293, 1932.
- Necremnus**
n Chamberlin, P. Ent. Soc. Wash. 35: 107, 1933.
- Necremnus leucarthros**
Essig & Michelbacher, Cal. B. 567: 69, 1933.
- Necrobia rufipes (Deg.) (Red-legged ham beetle)***
bi O'Flaherty & Roddy, Amer. Leather Chem. Assoc. J. 28: 302-306, 1933.
Robertson, Amer. Leather Chem. Assoc. J. 29: 128, 1934.
- Necrophorus conversator**
b Leech, B.C. Ent. Soc. P. 31: 36-40, '34.
- Necrophorus sepultor**
i Fabre, Golden Book 20: 409-411, 1934.
- Necrophorus spp.**
Buckley, USDA FB 1652: 62, 1931.
Buckley & Bunyea, USDA FB 1652 rev.: 67, 1933.
- Nectarina cameroni, lecheguana**
Bequaert, Ent. Amer. n.s. 13: 95-112, 1932.
- Necydalis diversicollis**
n Schaeffer, Bklyn. Ent. Soc. B. 27: 152-153, 1932.
- Neduba carinata**
Buckell, B.C. Ent. Soc. P. 27: 45-46, 1930.
- Negasilus**
n Curran, Fam. & Genera of North Amer. Diptera: 184, 1934.
- Negomphoides ambigua**
bi Byers, Univ. Fla. Pub. Biol. Sci. Ser 1(1): 244-246, 1930.
- *Negro bug, see Allocoris pulicaria (Germ.)**
- Negro scale, see Saissetia nigra**

- Nehalennia irene**
Montgomery, Ent. News 44: 41-42, 1933.
- Neleucania albilinea (Hbn.) (Wheat head armyworm)***
iMickel, J. Ec. Ent. 25: 1123, 1932.
- Nemadus hornii**
nHatch, J. N.Y. Ent. Soc. 41: 194-195, 1933.
- †Nematodes**
bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 50-51, 1931.
Cameron, Que. Soc. Prot. Pl. R. 25/26: 13-22, 1934.
iCarney, Agr. Engin. 13: 95-96, 1932.
biCassidy, Hawaiian Pl. Rec. 34: 379-387, 1930.
iCassidy, Facts about Sugar 26(2): 87, 1931.
biCassidy, Hawaiian Pl. Rec. 35: 305-339, 1931.
Corder, J. Parasit. 20: 104, 1933.
Courtney, W. Wash. Hort. Assoc. P. 25: 19-21, 1934.
Cram, USDA TB 227, 1931, 26p.
Dean, Kans. St. Hort. Soc. Bien. R. 42: 142, 1934.
iEssig & Hoskins, Cal. Ext. C. 87: 96-98, 1934.
iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 65-66, 1934.
Johnson & Godfrey, Facts about Sugar 27: 179, 1932.
McDaniel, Mich. Sp. B. 214: 21-25, 1931.
bNewhall, Ohio B. 451, 1930, 58p.
Newton, Hastings & Bosher, Flor. Rev. 70(1806): 15-16, 1932.
biSteiner, J. Agr. Res. 41: 427-434, 1930.
Steiner & Buhrer, Phytopath. 22: 927-928, 1932.
Stoutamire, Fla. Dept. Agr. B. n.s. 53: 22, 1932.
Tilford, Ohio B. 511: 16, 1932.
Van Zwaluwenburg, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 5 [P. Pt. 2], 1932, 4p.
Vera, Rev. Unidas 50(4): 37-39, 1934.
Wallace, Ind. Dept. Conserv. R. 13: 61-62, 1931.
Williams, Through the Leaves 22: 91, 1934.
- Nematodes and plant diseases—Soreshin**
Farm & Ranch 52(8): 15, 1933.
- Nematoproctus spp.**
nVan Duzee, Psyche 37: 167-172, 1930.
- Nematus erichsonii, see Lygaeonematus erichsonii**
- Nematus similis**
Essig, Hist. of Ent.: 257, 1931.
- Nemeritis canescens**
Diamond, Ent. Soc. Ont. R. 60: 84-89, 1930.
Simmons, Reed & McGregor, USDA C. 157: 42, 1931.
J. Ec. Ent. 25: 946, 1932.
- Nemestrinidae**
Bequaert, Psyche 37: 286-297, 1930.
Bequaert, J. N.Y. Ent. Soc. 42: 163-184, 1934.
- Nemobius**
biFulton, Ann. Ent. Soc. Amer. 24: 205-237, 1931.
- Nemobius fasciatus**
nFulton, Ann. Ent. Soc. Amer. 26: 368-376, 1933.
- Nemobius sparsalsus**
inFulton, Ent. News 41: 38-42, 1930.
Hebard, Ent. News 41: 42-43, 1930.
- Nemocera**
biJohannsen, N.Y. (C.) Mem. 164, 1934, 71p.
biMatheson, Med. Ent.: 299-314, 1932.
- Nemorilla floralis**
bClark, USDA TB 455: 20, 1934.
- Nemotelus beameri**
nJames, J. Kans. Ent. Soc. 6: 70, 1933.
- Nemotelus flavicornis**
nJames, Amer. Mus. Nov. 571: 7, 1932.
- Nemotelus lambda**
nJames, J. Kans. Ent. Soc. 6: 70-71, '33.
- Nemoura cataractae, columbiana**
inNeave, Can. Ent. 65: 238, 1933.
- Nemouridae**
biClaassen, Plecoptera Nymphs of Amer.: 92-108, 1931.
bNeave, Can. Ent. 66: 2, 1934.
- Neoplectana glaseri**
Glaser, N.J. St. Dept. Agr. R. 16: 175-180, 1931.
nGlaser, Science n.s. 71: 16-17, 1930.
biGlaser, N.J. C. 211, 1931, 34p.
Glaser, Science n.s. 73: 614-615, 1931.

- Weiss, N.J. St. Dept. Agr. R. 17: 129-130, 1932; R. 18: 126-128, 1933.
iLit. Dig. 116(7): 18, 1933.
- Neobaphion elongatum**
nBlaisdell, Trans. Amer. Ent. Soc. 59: 208-210, 1933.
- Neobellamira delicata, sequoiae**
nHopping, Can. Ent. 66: 115-116, 1934.
- Neoborus amoenus** (Ash leaf bug)
biSoraci, N.J. Dept. Agr. C. 243: 47-48, 1934.
- Neocloeon, N. alamance**
binTraver, J. N.Y. Ent. Soc. 40: 365-372, 1932.
- Neoclytarius atricolor**
nPerkins, Hawaiian Ent. Soc. P. 8: 266-267, 1933.
- Neoclytarius filipes** 382, **geranii** 417-418, **indecens** 418, **raillardiae** 416-417
nPerkins, Hawaiian Ent. Soc. P. 7: 1931.
- Neoclytus—Key**
biHopping, Ann. Ent. Soc. Amer. 25: 546-560, 1932.
- Neoclytus abbreviatus** 551, **acuminatus** (F.) (Red-headed ash borer)* 550, **angelicus** 555, **approximatus** 551-552, **balteatus** 554, **basillaris** 553-554
biHopping, Ann. Ent. Soc. Amer. 25: '32.
- Neoclytus caprea**
Wallace, Ind. Dept. Conserv. R. 13: 50, 1931.
Wallace, Ind. St. Dept. Conserv. Div. Ent. R. f. 1931: 24, 1932.
- Neoclytus conjunctus** 559, **cordifer** 548-549, **kirbyi** 558, **longipes** 548, **mag-nus** 556, **modestus** 556-557, **mu-cronatus** 549-550
biHopping, Ann. Ent. Soc. Amer. 25: '32.
- Neoclytus nubilus**
nLinsley, Pan-Pac. Ent. 9: 93-94, 1933.
- Neoclytus pallidicornis, pubicollis**
nFisher, PUSNM 80(22): 58-60, 1932.
- Neoclytus scutellaris, vanduzeei**
biHopping, Ann. Ent. Soc. Amer. 25: 549, 552, 1932.
- Neocoelidia spp.**
Oman, J. Kans. Ent. Soc. 4: 62-68, '31.
- Neocolpoptera spp.**
nDozier, Amer. Mus. Nov. 510: 22-24, '31.
- Neoconocephalus**
Hebard, Trans. Amer. Ent. Soc. 58: 330-332, 1932.
- Neoconocephalus lyristes**
biThomas, Ann. Ent. Soc. Amer. 26: 303-308, 1933.
- Neoconocephalus triops**
Hebard, Trans. Amer. Ent. Soc. 58: 331, 1932.
- Neocymus, N. insularis**
inVan Duzee, Bernice P. Bishop Mus. B. 98: 185-186, 1932.
- Neodexiopsis—Key**
Huckett, Trans. Amer. Ent. Soc. 60: 74-76, 1934.
- Neodiplocampta**
nCurran, Fam. & Genera of North Amer. Diptera: 200, 1934.
- Neodiploconus spp.**
nFleutiaux, Hawaiian Ent. Soc. P. 8: 48-49, 368, 484, 485, 1932-1934.
- Neodiplogaster pinicola**
bnSteiner, J. Agr. Res. 41: 125-130, 1930.
- Neodiprion abietis** (Spruce sawfly)*
biBird, Ent. Soc. Ont. R. 60: 76-82, 1930.
iPeirson, Field Book of Destruct. For. Ins. ed. 2: 17, 1932.
Swaine & Balch, J. Ec. Ent. 25: 1119, 1932.
Twinn, Ent. Soc. Ont. R. 65: 122, 1934.
J. Ec. Ent. 25: 152, 1932.
- Neodiprion banksiana** (Black-headed jackpine sawfly)
Schedl, Ent. Soc. Ont. R. 61: 75, 1931.
- Neodiprion burkei** (Lodgepole sawfly)*
biBurke, USDA C. 224: 11-18, 1932.
nMiddleton, P. Ent. Soc. Wash. 33: 174-176, 1931.
- Neodiprion (Neodiprion) ferrugineum**
nMiddleton, Can. Ent. 65: 82-83, 1933.
- Neodiprion lecontei** (Fitch) (Red-headed pine sawfly)*
iPeirson, Field Book of Destruct. For. Ins. ed. 2: 15, 1932.
biSoraci, N.J. Dept. Agr. C. 243: 45, '34.
Twinn, Que. Soc. Prot. Pl. R. 23/24: 160, 1932.
iHort. n.s. 12: 298, 1934.
- Neodiprion nigroscutum, ontarioensis**
nMiddleton, Can. Ent. 65: 80-84, 1933.
- Neodiprion pinetum**
Bailey, Cult. Conifers North Amer.: 343, 1933.
Hedrick, N.Y. (Gen.) R. 51: 61, 1932.
Ladd, N.Y. (Gen.) R. 52: 64, 1933.

- Neodiprion pinetum** *Cont'd*
 iPearson, Field Book of Destruct. For. Ins. ed. 2: 15, 1932.
- Neodiprion (Zadiprion) rohweri**
 nMiddleton, P. Ent. Soc. Wash. 33: 166-169, 1931.
- Neodiprion (Neodiprion) rugifrons**
 nMiddleton, Can. Ent. 65: 79-80, 1933.
- Neodiprion sp.**
 Burke, Cal. Agr. Mo. B. 21: 360, 1932.
 iDunn, Can. Dept. Agr. Div. For. Ins. Sp. C. 1931, 3p.
 Schedl, Ent. Soc. Ont. R. 61: 75-76, '31.
- Neodiprion swaini**
 Dunn, Que. Soc. Prot. Pl. R. 25/26: 96-100, 1934.
 nMiddleton, P. Ent. Soc. Wash. 33: 171-174, 1931.
 Twinn, Ent. Soc. Ont. R. 65: 123-124, 1934.
- Neodiprion tsugae (Hemlock sawfly)***
 nMiddleton, Can. Ent. 65: 77-79, 1933.
- Neodiprion (Zadiprion) vallicola**
 Middleton, P. Ent. Soc. Wash. 33: 165-166, 169-170, 1931.
- Neodischistus, N. collaris, currani**
 nPainter, Amer. Mus. Nov. 642: 1-3, 1933.
- Neodiscodes, N. martinii**
 inCompere, Cal. Univ. Pub. Ent. 5: 272-274, 1931.
- Neorhythmus gladiolatum**
 inWilliamson & Williamson, Mich. Univ. Mus. Zool. Occ. Pap. 216: 7-11, '30.
- Neogene pictus**
 nClark, N. Eng. Zool. Club P. 12: 78, '31.
- Neoharmonia venusta**
 Seipmann, Bklyn. Ent. Soc. B. 27: 72, 1932.
- Neohermes infuscatus**
 nCaudell, Pan-Pac. Ent. 9: 125-126, '33.
- Neolaparus bivittatus**
 nCurran, Amer. Mus. Nov. 710: 3-4, '34.
- Neolecanium cornuparvum (Thro) (Magnolia scale)***
 biHerrick, Ann. Ent. Soc. Amer. 24: 302-305, 1931.
 biHerrick, N.Y. (C.) B. 515: 11-16, 1931.
 iMcDaniel, Mich. C. B. 133: 8, 1930.
- Neoneurus**
 Muesebeck, PUSNM 79(16): 10-11, 1931.
- Neonicotine, see Insecticides—Neonictine**
- Neopamphantus, N. calvinioi, maculatus**
 inBarber & Bruner, J. N.Y. Ent. Soc. 41: 533-536, 1933.
- Neopanorpa hirsuta**
 iCarpenter, Psyche 38: 184-185, 1931.
- Neophylax spp.**
 inBettes, N.Y. St. Mus. B. 292: 376, '34.
 inCarpenter, Psyche 40: 32-34, 1933.
- Neopodis mopsis**
 iCriddle, Can. Ent. 62: 25-28, 1930.
- Neoprociphilus aceris**
 Twinn, Ent. Soc. Ont. R. 65: 125, 1934.
- Neoprociphilus attenuatus**
 iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 362-363, 1931.
- Neopsylla texanus**
 inStewart, Can. Ent. 62: 179-180, 1930.
- Neorhynchocephalus**
 Bequaert, Psyche 37: 286-290, 1930.
- Neorhynchocephalus mexicanus**
 niBequaert, J. N.Y. Ent. Soc. 42: 171-173, 1934.
- Neorhynchocephalus sackeni**
 Bequaert, Psyche 37: 291-294, 1930.
 Bequaert, J. N.Y. Ent. Soc. 42: 169-171, 1934.
- Neorhynchocephalus sulphureus, vitripennis**
 Bequaert, Psyche 37: 294-295, 1930.
- Neorhynchocephalus volaticus**
 Bequaert, Psyche 37: 290-291, 1930.
 Bequaert, J. N.Y. Ent. Soc. 42: 166-169, 1934.
- Neorizetes, N. rugosala**
 inJacot, Amer. Midland Nat. 14: 695-697, 1933.
- Neoschöngastia spp.**
 inEwing, PUSNM 80(8): 14-16, 1931.
- Neosciara ocellaris**
 biEllisor, Iowa St. Coll. J. Sci. 9: 25-36, 1934.
- Neosimplicius, N. medialis**
 inCarpenter, Carnegie Mus. Ann. 22: 339-340, 1934.
- Neosminthurus**
 nMills, Collembola of Iowa: 98, 1934.
- Neosminthurus occidentalis**
 inMills, Bklyn. Ent. Soc. B. 30: 138-139, 1935.

- Neosminthurus sminthurinus**
in Mills, Collembola of Iowa: 99-100, '34.
- Neostricklandia helcostizoides**
Cushman, PUSNM 82(14): 7, 1933.
- Neosymydobius albasiphus**
Miller, Ent. News 44: 106, 1933.
- Neosymydobius luteus**
in Tissot, Fla. Ent. 16: 10-11, 1932.
- Neosymydobius memorialis**
in Hottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 262-264, 1931.
- Neosyntormon**
nCurran, Fam. & Genera of North Amer. Diptera: 230-231, 1934.
- Neotermes castaneus (Dry wood termite)**
Thompson, Fla. R. f. 1932: 73; R. f. 1933: 78.
Thompson, Fla. St. Hort. Soc. P. 46: 84-87, 1933.
iWatson & Berger, Fla. Ext. B. 67: 126-128, 1932.
- Neotermes connexus (Large termite)**
Swezey, Hawaiian Pl. Rec. 36: 144, '32.
- Neotermes simplicicornis**
Lockwood, Cal. Agr. Mo. B. 18: 765, 1929.
- Neothremma, N. alicia**
in Banks, Psyche 37: 229-230, 1930.
- Neothrips obesus**
in Faure, Bklyn. Ent. Soc. B. 28: 14-16, 1933.
- Neotiphia luteipennis, sulcata**
Allen, Trans. Amer. Ent. Soc. 60: 296, 297, 1934.
- Neotoxoptera violae, see Micromyzus violae**
- Neotrachys hoffmani**
nFisher, P. Ent. Soc. Wash. 32: 128-129, 1930.
- Neotrichus latiusculus**
Swezey, Hawaiian Ent. Soc. P. 8: 393, 1934.
- Neottiglossa undata**
biBaker, Can. J. Res. 4: 197-198, 1931.
- Neotylenchus obesus**
in Thorne, J. Agr. Res. 49: 762-763, 1934.
- Neoxyela alberta**
Ross, Ann. Ent. Soc. Amer. 25: 155-156, 1932.
- Nephanes sp.**
Davis, P. Ent. Soc. Wash. 36: 269, '34.
- Nephelodes emmedonia (Cram.) (Bronzed cutworm)***
Pierstorff, Ohio Ext. Pl. Dis. & Ins Notes 2(2): 3, 1931.
- Nephopteryx pirivorella**
bClausen, USDA C. 168: 14-15, 1931.
- Nephotettix apicalis**
bClausen, USDA C. 168: 52, 1931.
- Nephotettix apicalis and "stunt" disease of rice**
Heald, Man. of Pl. Dis. ed. 2: 251, '33.
- Nephrotoma ferruginea (Leather jacket)**
Britton, Conn. B. 344: 168, 1933.
Rogers, Ecol. Monog. 3(1): 35, 1933.
- Nephrotoma tumidiverticilis**
nAlexander, Harv. Univ. Inst. Trop Biol. Contrib. 5: 1006, 1930.
- Nephus pictus**
Swezey, Hawaiian Ent. Soc. P. 8: 389, 1934.
- Nepidae**
Hungerford, Can. Ent. 62: 216-218, 1930.
- Nepticula braunella**
binJones, Cal. Univ. Pub. Ent. 6(4): 49-78, 1933.
- Nepticula exasperata**
nBraun, Trans. Amer. Ent. Soc. 56: 17, 1930.
- Nepticula gossypii**
in Forbes & Leonard, J. Dept. Agr. P.R. 14: 151-157, 1930.
bRainwater, J. Ec. Ent. 27: 761, 1934.
- Nepticula pomivorella**
iQuaintance & Siegler, USDA FB 1270 rev.: 62, 1931.
- Nepticula sericopeza**
Britton, Conn. B. 327: 578, 1931.
Bromley, J. N.Y. Ent. Soc. 39: 269-270, 1931.
Felt, P. Ent. Soc. Wash. 32: 146-149, 1930.
Felt, Nat. Shade Tree Conf. P. 8: 80, 1932.
Felt & Bromley, Nat. Shade Tree Conf. P. 6: 18, 1930.
Hyslop, J. Ec. Ent. 27: 561, 1934.
- Neralsia**
Weld, P. Ent. Soc. Wash. 32: 138, 1930.
- Neriidae**
Cresson, Trans. Amer. Ent. Soc. 56: 307-362, 1930.

- Nerius durus* 317, *flavifrons* 316, *pilifer* 314-315, *robusta* 315
Cresson, Trans. Amer. Ent. Soc. 56: 1930.
- Nesamiptis plagiota*
Swezey, Hawaiian Ent. Soc. P. 7: 390, 1931.
- Nesithmysus bridwelli*
Swezey, Hawaiian Ent. Soc. P. 8: 9, '32.
- Nesithmysus haasii*
Swezey, Hawaiian Ent. Soc. P. 8: 9, 12, 1932.
- Nesodryas (Nesothoe) maculata*
Swezey, Hawaiian Ent. Soc. P. 8: 386-387, 1934.
- Nesomyiacris fratercula*
in Rehn, Trans. Amer. Ent. Soc. 56: 25-27, 1930.
- Nesopimpla naranyae*
Fullaway, Hawaiian Ent. Soc. P. 7: 351, 1931.
- Nesosteles* spp.
DeLong & Davidson, Ohio J. Sci. 33: 55-58, 1933.
- Nessorhinus graciloides*
in Dozier, Amer. Mus. Nov. 510: 3-4, '31.
- Nessorhinus vulpes*
iDozier, Amer. Mus. Nov. 510: 2, 1931.
- Neumania hickmani*
in Marshall, Wis. Acad. Sci. Trans. 28: 46, 1933.
- Neuraeschna mina*
in Williamson & Williamson, Mich. Univ. Mus. Zool. Occ. Pap. 218: 9-15, '30.
- Neurigona bicolor*
in Van Duzee, Amer. Mus. Nov. 655: 9-12, 1933.
- Neurigona grossicauda*
in Van Duzee, Amer. Mus. Nov. 483: 25-26, 1931.
- Neurigona ornatus*
nVan Duzee, Ent. News 41: 55, 1930.
- Neurigona thoracica*
nVan Duzee, BAMNH 61: 178, 1931.
- Neurobathra curcassi*
nBusck, Ent. Amer. n.s. 13: 181-182, '33.
- Neurocolpus* spp.
Knight, Bklyn. Ent. Soc. B. 29: 162-167, 1934.
- Neurocordulia* sp.
biByers, Univ. Fla. Pub. Biol. Sci. ser. 1(1): 259, 1930.
- Neuroctenus pseudonymus*
McClure, Ent. News 43: 188-189, 1932.
- Neuroplagia*
nTownsend, J. N.Y. Ent. Soc. 40: 479, 1932.
- Neuropsycha, N. tibialis*
in Carpenter, Psyche 40: 38-39, 1933.
- Neuroptera (Lace wings)*
iBanks, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1045-1047, 1930.
Banks, Psyche 37: 223-233, 1930; 38: 56-70, 1931.
Brown, Can. Ent. 66: 211, 1934.
bMontgomery & Trippel, Ent. News 44: 258-261, 1933.
biSmith, Ann. Ent. Soc. Amer. 24: 798-821, 1931.
biSmith, J. Kans. Ent. Soc. 7: 120-145, 1934.
iWatson & Berger, Fla. Ext. B. 67: 18-19, 1932.
- Neurostrata pithecolobiella*
nBusck, Ent. Amer. n.s. 13: 180-181, 1933.
- Neurota, N. bicolor*
in Curran, Amer. Mus. Nov. 456: 2, 1931.
- Neuroterus q-saltatorius*
McDaniel, Mich. Sp. B. 243: 63, 1933.
- Neurotmata breviceps, sponosa*
binMetcalf & Bruner, Psyche 37: 396-399, 1930.
- *New Guinea sugar cane weevil, *see* *Rhabdocnemis obscura* (Bdv.)
- New Guinea tachinid, *see* *Ceromasia sphenophori* Vill.
- New York leaf roller, *see* *Cacoecia argyrospila*
- *New York weevil, *see* *Ithycerus noveboracensis* (Forst.)
- Nezara hilaris, see* *Acrosternum hilaris*
- Nezara viridula* (L.) (Southern green stinkbug)*
Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(6): 44, 1931.
Bratley, Fla. R. 45: 72, 1931.
Gonzales, Rev. de Agr. Cuba 14(3): 21-22, 1932.
iMoznette et al, USDA FB 1654: 17-22, 1931.
Snapp, USDA FB 1557 rev.: 34, 1931.
Watson, Fla. R. f. 1929: 55.

- Watson, Fla. St. Hort. Soc. P. 43: 100-105, 1930.
 iWatson, Fla. B. 232: 61-62, 1931.
 iWatson & Berger, Fla. Ext. B. 67: 99-105, 1932.
- Nezara viridula**—Parasites
 Bratley, Fla. R. f. 1934: 52.
- Nicocles reinhardi**
 nBromley, Ann. Ent. Soc. Amer. 27: 91-92, 1934.
- Niconiades reducta**
 inBell, J. N.Y. Ent. Soc. 38: 455, 1930.
- Nicotine tannate**, *see* Insecticides—Nicotine tannate
- Nippolachnus piri**
 bClausen, USDA C. 168: 26, 1931.
- Nipteria viatrix chiapanensis**
 inHoffmann, Mex. Univ. Nac. Inst. Biol. Anal. 5: 204-205, 1934.
- Niptus hololeucus** Fald. (Golden spider beetle)*
 Gray, Ent. Soc. Ont. R. 65: 66, 1934.
- Nitela floridana**
 nPate, Ent. News 45: 241-243, 1934.
- Nitidulidae**
 Illingworth, Hawaiian Ent. Soc. P. 7: 464-465, 1931.
- Noctua clandestina**, *see* *Spaelotis clandestina*
- Noctuella elautalis**
 Mortensen, Cactus & Succul. Soc. Amer. J. 1: 172, 1930.
- Noctuidae** (Cutworms)
 Ball, Boyden & Stone, Fla. B. 250: 17-18, 1932.
 Compton, Ill. St. Nat. Hist. Surv. Ent. ser. C. 12: 36-38, 1930.
 iCompton, Ill. C. 391: 10-11, 1932.
 iCrumb, La Hacienda 25: 500-501, '30.
 iEssig & Hoskins, Cal. Ext. C. 87: 89-92, 1934.
 iHawkins, Ann. Ent. Soc. Amer. 23: 393-396, 1930.
 Phipps, Maine B. 356: 147-150, 1930.
 Richards, Ent. News 42: 247-252, 271-276, 1931.
 biRichards, Ent. Amer. n.s. 13: 1-43, '32.
 bStanley, Ann. Ent. Soc. Amer. 25: 366-368, 1932.
 Wood, Can. Ent. 63: 149-150, 1931.
 Maine, B. 357: 233, 1930.
- Nodita americana**
 biSmith, J. Kans. Ent. Soc. 7: 131, 1934.
- Nodonota puncticollis** (Say) (Rose leaf beetle)*
 biBritton, Conn. B. 360: 469-471, 1934.
- Nomada**
 Rodeck, Amer. Mus. Nov. 496, 1931.
 11p.
 iStep, Bees, Wasps, Ants: 149-158, '32.
- Nomada amorphae**—Colorado
 Rodeck, Ent. News 43: 13, 1932.
- Nomada** (*Gnathias*) **leucozona**
 inRodeck, Amer. Mus. Nov. 496: 4-5, 1931.
- Nomada vallesina**
 bHicks, Univ. Col. Studies 21: 267, 1934.
- Nomadacris septemfasciata**
 Cockerell, Nat. Hist. 32: 402, 1932.
- Nomaretus** (*Maronetus*) **unistriatus**
 nDarlington, Psyche 38: 149-150, 1931.
- Nomenclature**, *see* Zoology—Nomenclature
- Nomia** spp.
 Blair, Am. Mus. Nov. 432: 7-9, 17-19, 1930.
 Blair, Univ. Col. Studies 20: 8-9, 1932.
 Cockerell, Amer. Mus. Nov. 433: 10-17, 1930.
 nCockerell, Amer. Mus. Nov. 453: 15-17, 1930.
 nCockerell Psyche, 37: 147-148, 1930.
 nCockerell, Amer. Mus. Nov. 466: 9-10, 1931.
 nCockerell, Amer. Mus. Nov. 547: 6-12, 1932.
- Nomioides muiroi**
 Cockerell, Amer. Mus. Nov. 547: 1-2, 1932.
- Nomophila noctuella** (Celery stalk worm)
 Hutson, Mich. R. 47: 219, 1934.
- Nonagria oblonga**
 Cole, Ent. News 41: 10, 1931.
- ***Northeastern sawyer**, *see* *Monochamus notatus* (Drury)
- ***Northern cattle grub**, *see* *Hypoderma bovis* Deg.
- Northern cloudy wing**, *see* *Thorybes pylades*
- Northern fowl mite**, *see* *Liponyssus silvium*
- Northern grain wireworm**, *see* *Ludius aeri-pennis*

- Northern hornworm**, *see* *Protoparce quinquemaculata*
- *Northern house mosquito**, *see* *Culex pipiens* L.
- Northern mill termite**, *see* *Coptotermes acinaciformis*
- *Northwestern floodwater mosquito**, *see* *Aedes aldrichi* Dyar & Knab
- Norvellina** spp.
nBall, Fla. Ent. 15: 2-4, 1931.
- Norway maple insect**
Felt, P. Ent. Soc. Wash. 32: 146-149, '30.
- *Nose botfly**, *see* *Gastrophilus haemorrhoidalis* (L.)
- Nostima picta**
Cresson, Trans. Amer. Ent. Soc. 56: 101, 1930.
- Nostima scutellaris**
Cresson, Ent. News 44: 68, 1933.
- Notaris flavipilosus**
nChittenden, P. Ent. Soc. Wash. 32: 48-49, 1930.
- Nothochrysa californica**
bSmith, Ann. Ent. Soc. Amer. 25: 582, 1932.
- Notiobiella, N. peterseni**
Banks, Psyche 39: 103-106, 1932.
- Notopsyche**
Carpenter, Psyche 40: 34-35, 1933.
- Notiothauma reedi**
iCrampton, Psyche 37: 83-103, 1930; 38: 1-21, 1931.
- Notiphila latelimbata**
nCurran, BAMNH 61: 77-78, 1931.
- Notochaetophyto, N. resinata**
inHall, BAMNH 66: 258-259, 1933.
- Notocyphus minimus**
nBanks, Bklyn. Ent. Soc. B. 26: 131, '31.
- Notodontidae**
McDunnough, Can. Ent. 64: 39, 1932.
- Notoedres cati**
Caler, J. Kans. Ent. Soc. 4: 82-83, '31.
iHall, USDA C. 338 rev.: 6, 1934.
- Notoedres minor cuniculi**
iSchwartz & Shook, USDA FB 1568 rev.: 5-6, 1931.
- Notogonidea subtessellata**
Williams, Hawaiian Ent. Soc. P. 7: 344, 1931.
- Notolophus antiqua** (L.) (Rusty tussock moth)*
bCrowley, Wash. B. 276: 14, 1933.
- iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 15, 1934.
- iMcDaniel, Mich. Sp. B. 243: 18-20, 1933.
Newcomer, USDA C. 270: 40, 1933.
- biRose, et al, USDA Misc. Pub. 168: 35, 1933.
- Notonecta** spp.
nHungerford, Bklyn. Ent. Soc. B. 25: 138-143, 1930; B. 28: 135, 1933.
nHungerford, J. Kans. Ent. Soc. 5: 53-55, 1932; 7: 97-98, 1934.
biHungerford, Univ. Kans. Sci. B. 21: 5-195, 1933.
Stutzman, Ent. News 45: 278-280, '34.
Torre-Bueno, Bklyn. Ent. Soc. B. 29: 119, 1934.
- Notonectidae—Western U.S.**
Hungerford, Can. Ent. 62: 216-218, 1930.
- Notopsyche rhombifera**
inMartynov. PUSNM 79(25): 15, 1931.
- Notothrips, N. folsomi, vittatus**
inHood, P. Ent. Soc. Wash. 35: 200-205, 1933.
- Notoxus parvidens**
nFall, Can. Ent. 64: 62, 1932.
- Novius cardinalis**, *see* *Rodolia cardinalis*
- Novomessor, N. manni**
binWheeler & Creighton, Amer. Acad. Arts & Sci. P. 69: 342-354, 1934.
- Nudobius pugetanus**
biStruble, Cal. Univ. Pub. Ent. 5: 127-132, 1930.
- Nursery insects**
Basinger, Cal. Agr. Mo. B. 20: 189-193, 1931.
Chadwick, Flor. Rev. 70(1805): 62-66, 1932.
Chambers, J. Ec. Ent. 24: 646-648, '31.
iChambers & Thompson, Wis. Dept. Agr. B. 145, 1933. 87p.
Dean, Kans. St. Hort. Soc. Bien. R. 40: 129-133, 1930.
iDietz, Amer. Nurserym. 53: 240, 1931.
Haseman, Missouri B. 272: 60, 1929.
Headlee, N.J. R. 53/54: 40-41, 1933.
Hedrick, N.Y. (Gen.) R. 50: 55-56, 1931; R. 51: 60-62, 1932.
Hyslop, J. Ec. Ent. 27: 559-566, 1934.

- Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 25.
- bSnapp & Thomson, J. Ec. Ent. 27: 771-779, 1934.
- biSoraci, N.J. Dept. Agr. C. 243, 1934. 62p.
- Steinweden, J. Ec. Ent. 27: 919-923, 1934.
- iTweedale, Flor. Exch. 78(1): 29, 36; 78(2): 25, 32; 78(3): 25, 34, 1931.
- Weiss, N.J. St. Dept. Agr. R. 19: 138, 1934.
- Miss. St. Pl. Bd. Quar. B. 10(4): 11, 1931.
- Nusalala damiensis**
- nSmith, Ann. Ent. Soc. Amer. 24: 800, 1931.
- Nut gall-mite, see Eriophyes avellanae**
- Nut insects**
- MacDaniels, N.Y. (C.) B. 573: 23-24, 1933.
- Marlatt, USDA Ent. R. f. 1930: 8-11; R. f. 1931: 14-16; R. f. 1932: 4-5; R. f. 1933: 7-9.
- Porter, Northern Nut Grow. Assoc. R. 23: 74-80, 1932.
- Strong, USDA Ent. R. f. 1934: 17.
- Walker, Fla. R. 45: 74, 1931.
- Watson, Fla. R. f. 1929: 57-58, 1930.
- iCornell Rur. School Leaf. 28(2): 15-16, 1934.
- *Nutgrass armyworm, see Spodoptera mauritia (Bdv.)**
- Nutgrass borer, see Bactra triculenta**
- Nutgrass insects**
- Pemberton, Hawaiian Sugar Pl. Assoc. P. 52: 20, 1933.
- Swezey & Pemberton, Hawaiian Sugar Pl. Assoc. P. 51: 583, 1932.
- Nutgrass weevil, see Athesapeuta cyperi**
- *Nuttall's blister beetle, see Lytta nuttalli**
- Nycteribia—Nomenclature**
- iCollins, Nat. Inst. Health B. 155: 743-765, 1931.
- Nycterophila coacta**
- Smith, J. Kans. Ent. Soc. 7: 62-64, '34.
- Nyctiophylax marginalis**
- inBanks, Psyche 37: 231, 1930.
- Nyctoporus vandykei**
- nBlaisdell, Pan-Pac. Ent. 8: 41-44, 1931.
- Nyctotherus osmodermæ**
- binZeliff, PUSNM 82(23): 1-3, 1934.
- †Nygmia phaeorrhoea (Donov.) (Brown-tail moth)***
- Bailey, Vt. St. Comm. Agr. Bien. R. 17: 65-66, 1934.
- iBeard, Amer. Boys' Bk. Bugs: 335-339, 1932.
- Berly, S.C. C. 43: 25, 1930.
- Britton, Conn. C. 73: 5-6, 1931.
- iBritton, Conn. B. 344: 140, 1933.
- iBurgess, Cal. Agr. Mo. B. 19: 265, '30.
- Burgess, Mass. Comm. Conserv. & St. For. R. f. 1930: 24-25; R. f. 1931: 25; R. f. 1932: 27.
- iBurgess, USDA FB 1623: 24-32, 1930.
- Marlatt, USDA Ent. R. f. 1930: 51-54; R. f. 1931: 61-63; R. f. 1933: 30-32.
- O'Kane, N.H. Agr. R. f. 1931-1932: 107-113.
- iOrmsby, Pract. Treat. Dis. Skin ed. 4: 1057-1058, 1934.
- Potter, N.H. Ext. B. 47: 42, 1934.
- iQuaintance & Siegler, USDA FB 1270 rev.: 49-51, 1931.
- Riley & Johannsen, Med. Ent.: 181-185, 1932.
- Sacharov, Ecology 11: 509, 1930.
- iSanderson, Ins. Pests Farm, ed. 3: 310-312, 1931.
- Stene & Horovitz, R.I. Agr. R. 6: 19-20, 1933.
- Strong, USDA PQCA R. f. 1930: 18; R. f. 1931: 16.
- Strong, USDA PQCA Q.45 rev., 1931, 8p.
- Strong, USDA BPQ R. f. 1933: 6-7.
- Twinn, Ent. Soc. Ont. R. 65: 127, 1934.
- Nygmia phaeorrhoea—Parasites**
- Burgess, USDA FB 1623: 28, 1930.
- Collins, Mass. Comm. Conserv. & St. For. R. f. 1930: 25; R. f. 1931: 25-26; R. f. 1932: 27-28.
- biDowden, J. Agr. Res. 46: 963-995, '33.
- biDowden, J. Agr. Res. 48: 97-114, 1934.
- biMuesebeck, J. Agr. Res. 43: 445-460, 1931.
- Proper, J. Agr. Res. 43: 37, 1931.
- bSchaeffner, Ann. Ent. Soc. Amer. 27: 585-592, 1934.
- Nygmia phaeorrhoea—Quarantine**
- Hoyt, USDA BPQ R. f. 1934: 6-9.

Nygmia phaeorrhoea *Cont'd*

- Strong, USDA PQCA R. f. 1930: 18;
R. f. 1931: 16; R. f. 1932: 6; R. f.
1933: 6-7.
USDA Off. Rec. 10: 169, 1931.

Nygolaimus spp.

binThorne, J. Agr. Res. 41: 451-461, 1930.

Nylanderia consuta

- nWheeler, Cal. Acad. Sci. P. ser. 4, 21:
181, 1934.

Nylanderia dicroa, *see* Nylanderia consuta

Nymphocixia vanduzeei

- nMuir, Pan-Pac. Ent. 7: 13-14, 1930.

Nysius coenosulus

- Illingworth, Hawaiian Ent. Soc. P. 7:
364, 1931.

Nysius ericae (Schill.) (False chinch bug)*

- Armitage, Cal. Cit. 16: 515, 1931.
Borden, Cal. Agr. Mo. B. 19: 573, 1930.
Buchanan & Stevenson, Iowa R. f.
1933: 74.
Buckell, Ent. Soc. Ont. R. 61: 32, 1931.
Elcock et al, N. Mex. B. 207: 27, 1933.
iKnowlton, Utah Leaf. 43: 1934. 2p.
biLockwood, Cal. Agr. Mo. B. 18: 768,
1929; B. 22: 327, 337, 1933.
bSeamans, Pac. Sci. Cong. 5, P. 5: 3480,
1934.
iSmith, J. Kans. Ent. Soc. 5: 77, 1932;
7: 44, 1934.
Strickland, Alberta Ext. B. 24: 54-55,
1933.
Twinn, Que. Soc. Prot. Pl. R. 23/24:
153, 1932.
Pac. Rur. Press 122: 128, 1931.

Nysius ericae alticola

- inHutchinson, Conn. Acad. Arts & Sci.
Mem. 10: 126-127, 1934.

Nysius ericae minutus

- Sweet, J. Ent. & Zool. 22: 81, 1930.

Nysius (Ortholomus) naso

- nVan Duzee, Cal. Acad. Sci. P. ser. 4,
21(4): 27, 1933.

Nyssorhynchus

- biCurry, Amer. J. Hyg. 15: 566-572, '32.

Nystalea—Key

- Forbes, N.Y. Acad. Sci. Sci. Surv. P.R.
12: 44-45, 1930.

Oak-galls, *see* Cynipidae

Oak insects

- Britton, Conn. B. 327: 578, 1931.

- Decker, Iowa St. Hort. Soc. Trans. 68:
151-156, 1933.

- Miller, Ent. News 44: 105-107, 1933.

Oak looper, *see* Ellopia somnaria

Oak mite, *see* Paratetranychus bicolor

Oak pruner, *see* Hypermallus villosus

Oaxacella whitei

- inHebard, Trans. Amer. Ent. Soc. 58:
232, 1932.

Oberea bimaculata (Oliv.) (Raspberry cane borer)*

- B.L.S. Amer. Fr. Grow. Mag. 50(8): 12,
1930.

- Bourne, Mass. Ext. Leaf. 48: 13, 1933.

- Britton, Conn. B. 344: 154, 1933.

- iCaesar, Ont. B. 355: 29, 1930.

- iChambers & Thompson, Wis. Dept.

- Agr. B. 123: 21-22, 1931; B. 145: 29,
1933.

- Cook & Walker, Va. Truck B. 79:
1060-1061, 1932.

- Crosby et al, N.Y. (C.) Ext. B. 306:
8-9, 1934.

- Dean, Kans. St. Hort. Soc. Bien. R. 40:
150, 1930.

- iGibson, Can. Dept. Agr. B. n.s. 99,
rev.: 56, 1934.

- Houser, Ohio B. 454: 74, 1930.

- Hutson, Mich. Quar. B. 14: 267-269,
1932.

- Loree, Mich. C.B. 152: 28, 1934.

- Munro & Fox, N. & S.Dak. Hort. 5:
93, 1933.

- Pierstorff & Parks, Ohio Pl. Dis. & Ins.
Notes 1(4): 4, 1930.

- iSanderson, Ins. Pests Farm. ed. 3: 447-
448, 1931.

- Twinn, Ent. Soc. Ont. R. 65: 121, 1934.
Can. Hort. Fr. & Truck ed. 55: 198, '32.

Oberea japonica

- Clausen, USDA C. 168: 24, 1931.

Oberea myops (Blueberry stem borer)

- Beckwith, N.J. C. 320, 1934, 2p.
Hamilton, Nat. Shade Tree Conf. P.
9: 63-64, 1933.

- White, J. Ec. Ent. 26: 633, 1933.

Oberea ruficollis

- iGoldman, Trans. Amer. Ent. Soc. 59:
99, 1933.

Oberea schaumii

- Knull, Ent. News 43: 64, 1932.

- Oberea tripunctata**
 iGoldman, Trans. Amer. Ent. Soc. 59: 99-100, 1933.
 Hamilton, Nat. Shade Tree Conf. P. 9: 63-64, 1933.
 biSoraci, N.J. Dept. Agr. C. 243: 39-40, 1934.
- ***Oblique-banded leaf roller**, *see* *Cacoecia rosaceana* (Harr.)
- Obscure root weevil**, *see* *Sciopithes obscurus*
- ***Obscure scale**, *see* *Chrysomphalus obscurus* (Comst.)
- Obscuria, O. incerta**
 nCurran, Amer. Mus. Nov. 506: 3-4, '31.
- Obtusicauda essigi**
 Sweet, J. Ent. & Zool. 22: 84, 1930.
- Occident ant**, *see* *Pogonomyrmex occidentalis*
- Ochroaigenia ormioides**
 Fullaway, Hawaiian Ent. Soc. P. 7: 384, 1931.
- Ochroaigenia spp.**
 Fullaway, Hawaii Bd. Comm. Agr. For. Bien. R. f. 1930: 81, 1931.
- Ochrosidia**
 Britton, Conn. B. 338: 593, 1932.
- Ochrosidia knobelae**
 nBrown, Can. Ent. 66: 23-24, 1934.
- Ochrosidia pasadenae**
 Lockwood, Cal. Agr. Mo. B. 18: 770, 1929.
- Ochrosidia subvittata**
 nBrown, Can. Ent. 62: 5, 1930.
- Ochrosidia villosa**
 iSim, USDA C. 334: 9, 1934.
- Ochthebius insulanus**
 nBrown, Can. Ent. 63: 116-117, 1931.
- Ochthebius mimicus**
 nBrown, Can. Ent. 65: 45-46, 1933.
- Ochthera spp.**
 nCresson, Ent. News 42: 168-170, 1931.
 nCresson, Trans. Amer. Ent. Soc. 58: 28-34, 1932.
- Ocnaea trivittata**
 nAldrich, PUSNM 81(9): 4, 1932.
- Ocotemnus dixiensis**
 nTanner, Ann. Ent. Soc. Amer. 27: 47, 1934.
- †**Odonata (Dragonflies)**
 A.K., Sci. Amer. 88: 52, 1932.
 Bequaert, Ent. News 42: 82, 1931.
- iBird, Univ. Okla. Biol. Surv. Pub. 4: 50-57, 1932.
- iBird, Sci. Month. 36: 371-377, 1933.
- Bird & Rulon, Ent. News 44: 44-45, 1933.
- Borror, Ohio J. Sci. 30: 411-415, 1930.
- Brown, Can. Ent. 66: 220-222, 1934.
- Buckel, B.C. Ent. Soc. P. 30: 23-24, 1933.
- biByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1) 1930, 327p.
- Byers, Ent. News 42: 113-119, 1931; 45: 214-216, 1934.
- iByers, Fla. Nat. n.s. 4: 25-30, 1931; 5: 21-24, 1932.
- iCalvert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1039-1044, 1930.
- iCalvert, Harv. African Exped. 1930: 1039-1044, 1931.
- biCalvert, Amer. Phil. Soc. P. 73: 1-70, 1934.
- bDow, P. Biol. Soc. Wash. 44: 55-60, 1931.
- iFrost, Nature Mag. 20: 269, 1932.
- Gloyd, Ent. News 43: 189-190, 1932.
- Hinman, Ent. News 44: 49-50, 1933.
- Hood, Ent. News 43: 128-132, 1932.
- Howard, Insect Menace: 114-117, '31.
- biKlots, N.Y. Acad. Sci. Sci. Surv. P. R. 14(1), 1932, 107p.
- Loudon, Iowa Acad. Sci. P. 40: 213-215, 1934.
- McAttee, Ent. News 44: 235, 1933.
- Martynov, Psyche 37: 245-280, 1930.
- bMickel, Ann. Ent. Soc. Amer. 27: 411-414, 1934.
- Miller, J. Ent. & Zool. 22: 45, 48, 1930.
- bMontgomery, Ind. Acad. Sci. P. 39: 309-314, 1930; P. 40: 347-349, 1931; P. 41: 449-454, 1932.
- Montgomery, Ent. News 44: 40-44, 1933.
- Montgomery, Ind. Acad. Sci. P. 43: 211-217, 1933.
- iNeedham, Amer. Mus. Nov. 664: 1933, 6p.
- Needham, Ent. News 44: 98, 1933.
- iTing-wei Lew, Ent. Amer. n.s. 14: 41-96, 1933.
- Tinkham, Can. Ent. 66: 213-218, 241, 1934.
- Walker, Can. Ent. 65: 57-72, 1933.

†*Odonata* (Dragonflies) *Cont'd*iWeed, *Insect Ways*, 49-52, 1930.

Williamson, Mich. Univ. Mus. Zool. Occ. Papers 240, 1932, 40p.; 288, 1934, 20p.

iYeager, Iowa Acad. Sci. P. 39: 261-263, 1932.

Odonata—Common names

Williamson, Ent. News 42: 46-50, 1931.

Odonestis pruni

bClausen, USDA C. 168: 19, 1931.

Odontaeus darlingtoni 144, *liebecki* 145, *simi* 145.

Sim, J. N.Y. Ent. Soc. 38: 1930.

*Odontella cornifer*inMills, *Collembola of Iowa*: 25, 1934.*Odontocardus rufus*

nFleutiaux, Hawaiian Ent. Soc. P. 8: 483-484, 1934.

Odontocephus immarginatus

inJacot, Bernice P. Bishop Mus. B. 121: 12-15, 1934.

Odontocera spp.

nFisher, PUSNM 77(19): 4-10, 1931.

nWheeler & Darlington, *Psyche* 37: 110-111, 1930.*Odontoloxozus longicornis*

Cresson, Trans. Amer. Ent. Soc. 56: 313, 1930.

Odontomachus haematoda clarionensis

nWheeler, Pan-Pac. Ent. 10: 141, 1934.

Odontomerus spp.

biCushman, PUSNM 77(3), 1930, 15p.

Odontomyia—Respiration

biKuster, Mich. Acad. Sci. Pap. 19: 605-657, 1933.

Odontomyia alticola

nJames, J. N.Y. Ent. Soc. 40: 437-438, 1932.

Odontomyia idahoensis

inJames, Amer. Mus. Nov. 571: 6, 1932.

Odontomyia leucogaster

James, J. Kans. Ent. Soc. 6: 69-70, '33.

Odontomyia nuda

nJames, J. N.Y. Ent. Soc. 40: 436-437, 1932.

Odontomyia pilosa

Van Duzee, Pan-Pac. Ent. 7: 104, 1931.

Odontomyia truquii

James, Amer. Mus. Nov. 571: 6, 1932.

*Odontoponera transversa*Holloway, *Facts about Sugar* 27: 355, 1932.**Odorous house ant*, see *Tapinoma sessile**Odynerus bermudensis*

Bequaert, Ent. News 42: 277-279, '31.

Odynerus birenimaculatus

iDow, B. Bost. Soc. Nat. Hist. 56: 15-16, 1930.

Odynerus crenatus

Bequaert, J. N.Y. Ent. Soc. 39: 136, 1931.

Odynerus foraminatus

Rau, Ent. News 43: 119-121, 1932.

Odynerus (Rygchium) haitiensis

nBequaert & Salt, Ann. Ent. Soc. Amer. 24: 783-786, 1931.

Odynerus tripunctatus

Bequaert, J. N.Y. Ent. Soc. 39: 136, 1931.

Oecanthinae

biLockwood, Cal. Agr. Mo. B. 22: 321-323, 1933.

Serr, Pac. Rur. Press 123: 204, 1932.

Thompson, Oreg. St. Hort. Soc. R. 22: 116-117, 1930.

Oecanthus californicus

Smith, Cal. B. 505: 38, 1931.

Oecanthus nigricornis Walk. (Black-horned tree cricket)*

iCaesar, Ont. B. 355: 26-27, 1930.

iChambers & Thompson, Wis. Dept. Agr. B. 123: 24, 1931; B. 145: 31, '33.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 151, 1930.

Houser, Ohio B. 454: 72-73, 1930.

Loree, Mich. C.B. 152: 29, 1934.

biPayne, J. Morph. 53: 549, 1932.

Ross & Putnam, Ent. Soc. Ont. R. 64: 37, 1933.

Oecanthus nigricornis quadripunctatus Beut. (Four-spotted tree cricket)*

biPayne, J. Morph. 53: 547-549, 1932.

Oecanthus niveus (Deg.) (Snowy tree cricket)*

iBrowne, Cal. Agr. Mo. B. 20: 633-643, 1931.

iHenderson, Utah C. 96: 36, 1931.

iNewcomer, USDA C. 270: 56-58, 1933.

iQuaintance & Siegler, USDA FB 1270, rev.: 80, 1931.

iSmith, Cal. B. 505: 3-24, 1931.

- Wakeland, Ida. St. Hort. Assoc. P. 36: 160, 1931.
- iCornell Rur. School Leaf. 25(2): 24-27, 1931.
- Oecanthus niveus**—Parasites
Smith, Cal. Univ. Pub. Ent. 5(8): 165-172, 1930.
- Oecanthus niveus**—Sonification
Allard, Can. Ent. 62: 131-142, 1930.
bAllard, Science n.s. 72: 347-349, 1930.
biPickwell, Cal. St. Teach. Coll. Insects: 127-129, 1932.
- Oecanthus pini** (Pine tree cricket)
bEasterling, Ohio J. Sci. 34: 132, 1934.
- Oecanthus** sp.
Lockwood, Cal. Agr. Mo. B. 18: 764, 1929.
iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(4): 4, 1930.
Pettit & Hutson, Mich. C.B. 137: 56-57, 1931.
- Oeceticus kirbyi**
Greene, Cal. Agr. Mo. B. 21: 267, 1932.
- Oeciacus hirundinis**
Buckley & Bunyea, USDA FB 1652 rev.: 66-67, 1933.
- Oeciacus vicarius** Horv. (Swallow bug)*
Spencer, Can. Ent. 62: 20-21, 1930.
Spencer, B.C. Ent. Soc. P. 31: 45, 1934.
- Oeclidius** spp.
nBall, Pan-Pac. Ent. 10: 77-80, 1934.
- Oecophoridae**
Clarke, Can. Ent. 66: 178-179, 1934.
- Oecothia fenestralis**
Barber, Elisha Mitchell Sci. Soc. J. 46: 263-264, 1931.
- Oedaleothrips**—Key
Watson, Fla. Ent. 17: 64, 1933.
- Oedaleothrips andrei**
nWatson, Fla. Ent. 17: 49-50, 1933.
- Oedaleothrips hubbelli**
inWatson, Univ. Okla. Biol. Surv. Pub. 3: 341-342, 1931.
- Oedaleothrips jacksoni**
Watson, Fla. Ent. 17: 63-64, 1933.
- Oedaleothrips walteri**
nWatson, Fla. Ent. 17: 48-49, 1933.
- Oedemagena tarandi**
Buckell, B.C. Ent. Soc. P. 31: 14, 1934.
Dove & Cushing, J. Parasit. 20: 139, 1933.
Marlatt, USDA Ent. R. f. 1931: 75.
- Rawson, Sci. Month. 39: 501, 1934.
- Oedemagena terrae-novae**
Aldrich, P. Ent. Soc. Wash. 35: 166-167, 1933.
- Oedematocera dampfi**
iArango, Rev. de Agr. Cuba 14: 18, 34-37, 1933.
- Oedionychis interjectionis**
Schaeffer, Bklyn. Ent. Soc. B. 27: 239, 1932.
- Oedipodinae**
Thomas, Ohio J. Sci. 32: 320, 1932.
- Oeme californica, laticollis**
nLinsley, Ent. News 45: 162-164, 1934.
- Oeme rotundicollis**
nLinsley, Pan-Pac. Ent. 8: 116-117, '32.
- Oemini**—North American
Linsley, Pan-Pac. Ent. 8: 112-122, '32.
- Oeneis gibsoni**
nHolland, Carnegie Mus. Ann. 20(1): 51, 1930.
- Oeneis iduna**
Sternitsky, Pan-Pac. Ent. 9: 102, 1933.
- Oeneis jutta**
Grey, Ent. News 45: 35, 1934.
- Oeneis katahdin**
Rogers, Ent. News 45: 191-193, 1934.
- Oeneis semplei**
nHolland, Carnegie Mus. Ann. 20(1): 50-51, 1930.
McDunnough, Can. Ent. 64: 267, 1932.
- Oenoe minimella**
nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 154, 1930.
- Oenus kayei**
inBell, J. N.Y. Ent. Soc. 39: 524, 1931.
- Oestlundia**
binGranovsky, P. Ent. Soc. Wash. 32: 63-64, 1930.
- Oestlundia flava**
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 903-904, 1931.
- Oestridae**
iCameron, Can. Dept. Agr. B. 152: 11-14, 1931.
iConklin, J. Agr. & Hort. 37(8): 7, 16, 1934.
Davis, Ind. B. 105 rev.: 6-7, 1933.
Lytle, Oreg. Dept. Agr. B. 22: 11-12, 1933.
McCapes, USDA Ext. Ser. Rev. 3: 127, 1932.

Oestridae Cont'd

Marlatt, USDA Ent. R. f. 1933: 41-42.

iMiller, Purdue Agr. 26: 11, 1931.

bPainter, J. Kans. Ent. Soc. 3: 32-35, 1930.

Riley & Johannsen, Med. Ent.: 309-320, 1932.

iStevenson, Ont. Dept. Agr. B. 378, 1934. 13p.

Oestrosomyia

nTownsend, J. N.Y. Ent. Soc. 40: 443, 1932.

Oestrus ovis L. (Sheep botfly)*

Babcock, Tex. R. 47: 227, 1934.

Cameron, J. Agr. & Hort. 38(5): 33, 35, 1934.

iDill, Nev. B. 135, 1934, 12p.

Doane, Common Pests: 58, 1931.

Doten, Nev. R. f. 1933-1934: 21-22.

Gildow, Ida. News Letter 14(9): 4, '30.

iHall, USDA FB 1330, rev.: 13-15, '32.

Marsh, Nat. Wool Grow. 21(5): 37, '31.

bMatheson, Med. Ent.: 395, 1932.

biMitchell & Corbett, Amer. Vet. Med.

Assoc. J. n.s. 36(2): 247-254, 1933.

Riley & Johannsen, Med. Ent.: 317-318, 1932.

iSanderson, Ins. Pests Farm, ed. 3: 520-521, 1931.

iSmith, J. Kans. Ent. Soc. 7: 47, 1934.

i[Stevenson] Common Animal Parasites

Inj. to Sheep in Eastern Canada: 33-35, 1931.

Oidaematophorus confusus

Braun, Can. Ent. 62: 123-124, 1930.

Oidaematophorus monodactylus

Gibson, Can. Dept. Agr. B. n.s. 99, rev.: 24, 1934.

Oidaematophorus occidentalis

Clarke, Can. Ent. 66: 172, 1934.

Oil liberator, see Spraying apparatus—Oil liberator**Oil pool insects**

Thorpe, Sci. News Letter 19: 127, 1931.

Pop. Mech. 55: 576, 1931.

Oil spray, see Spray materials—Oil.**Okanagana spp.**

Beamer, J. N.Y. Ent. Soc. 38: 295-303, 1930.

iDavis, J. N.Y. Ent. Soc. 38: 64-70, '30.

inWymore, Pan-Pac. Ent. 10: 166-169, 1934.

Okanagodes gracilis

Beamer, J. N.Y. Ent. Soc. 38: 298-299, 1930.

Okanagodes gracilis pallida, terlingua

inDavis, J. N.Y. Ent. Soc. 40: 256-258, 1932.

Okra insects

bWolcott, P.R. Dept. Agr. J. 15: 395-398, 1931.

Olca spp.

iMortensen, Cactus & Succul. Soc. Amer. J. 1: 172, 1930.

Oleander scale, see Aspidiotus hederæ*Olethreutes—Key**

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 85-86, 1930.

Olethreutes abietana, see Taniva albolineana**Olethreutes anthracana**

nForbes, P.R. Dept. Agr. J. 15: 347-348, 1931.

inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 347-348, 1931.

Olethreutes canofascia

nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 86-87, 1930.

Olethreutes hebesana, see Endothenia hebesana**Olethreutes nimbatana, see Hedra ochroleucana****Olethreutes schistaceana**

Holloway, Facts about Sugar 25: 831, 1930.

Olethreutidae

Clarke, Can. Ent. 66: 179-181, 1934.

Olfersia coriacea

Bequaert, Psyche 38: 186-190, 1931.

Olfersia erythropsis, fossulata

Bequaert, Cal. Acad. Sci. P. ser. 4, 21: 133-134, 1933.

Olfersia spp.—Key

Bequaert, Psyche 40: 101-105, 1933.

Olfersia spinifera

Bequaert, Cal. Acad. Sci. P. ser. 4, 21: 132-133, 1934.

Dunn, Psyche 41: 175, 1934.

Olfersia vulturis

Bequaert, Psyche 38: 190-191, 1931.

Oliaronus, O. tontonus

nBall, J. Wash. Acad. Sci. 24: 268-269, 1934.

- Oliarus galapagensis**
 nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21:
 4, 33, 1933.
- Oliarus spp.**
 Ball, J. Wash. Acad. Sci. 24: 270-276,
 1934.
- Oligacanthopus prograptus**
 Hebard, Trans. Amer. Ent. Soc. 57:
 136-137, 1931.
- Oligia fractilinea**
 Neiswander, Ohio B. 446: 87-88, 1930.
- Oligoclada spp.**
 binBorror, Univ. Mich. Mus. Zool. Misc.
 Pub. 22, 1931, 42p.
- Oligoctenus sp.—Bite**
 bPinkus, Psyche 41: 36-37, 1934.
- Oligolochus—Key**
 Buchanan, Ann. Ent. Soc. Amer. 25:
 335-336, 1932.
- Oligomerus obtusus**
 Swezey, Hawaiian Ent. Soc. P. 8: 381,
 1934.
- Oligooestrus, O. oestroideus**
 inTownsend, PUSNM 82(1) 1932, 4p.
- Oligopsyche**
 nCarpenter, Psyche 40: 26, 1933.
- Oligota oviformis**
 Kirkpatrick, Cal. Cult. 80: 347, 1933.
 biQuayle, Cal. B. 542: 16-17, 1932.
- Oligothrips, O. oreios**
 nMoulton, Pan-Pac. Ent. 9: 139-140,
 1933.
- Oligotoma texana**
 Bryan, Hawaiian Ent. Soc. P. 8: 239,
 1933.
 iMills, Ann. Ent. Soc. Amer. 25: 648-
 652, 1932.
- *Olive fruitfly, see Dacus oleae Gmel.**
- Olive insects**
 bClausen, USDA C. 168: 42-43, 1931.
 iEssig & Hoskins, Cal. Ext. C. 87: 63-
 64, 1934.
 iValenzuela, La Hacienda 25: 19, 1930.
- Olive scale, see Parlatoria oleae**
- Olla abdominalis**
 iWatson & Berger, Fla. Ext. B. 67: 76,
 1932.
- Olyca junctolineella**
 bHamlin, Ann. Ent. Soc. Amer. 25: 102-
 103, 1932.
- Omiodes accepta (Butl.) (Sugarcane leaf
 roller)***
 Holloway, Facts about Sugar 28(5):
 217, 1933.
 Swezey, Mid-Pac. Mag. 42: 326, 1931.
 biWilliams, Handb. Insects . . . Hawai-
 ian Sugar Cane Fields: 142-148, '31.
- Omiodes asaphombra**
 Swezey, Hawaiian Ent. Soc. P. 7: 360,
 1931.
- Omiodes blackburni (Butl.) (Coconut leaf
 roller)***
 Pemberton, Hawaiian Ent. Soc. P. 8:
 25, 1932; P. 8: 512, 1934.
- Ommatius tibialis**
 Rogers, Ecol. Monog. 3(1): 35, 1933.
- Ommatostolidea, O. julitae**
 nBenjamin, Pan-Pac. Ent. 9: 1-2, 1933.
- Ommexecha**
 Rehn, Sci. Month. 39: 39, 1934.
- Omnivorous looper, see Sabulodes cabe-
 rata**
- Omorgus mutabilis**
 bDowden, Ann. Ent. Soc. Amer. 27: 600,
 1934.
- Omosita discoidea**
 Seipmann, Bklyn. Ent. Soc. B. 27: 49-
 50, 182, 1923.
 Swezey, Hawaiian Ent. Soc. P. 8: 380-
 381, 1934.
- Omus californicus**
 iHorn, Trans. Amer. Ent. Soc. 56: 73-
 86, 1930.
- Omus submetallicus**
 Martin, Pan-Pac. Ent. 8: 188-189, '32.
- Oncerothelus magnitylus**
 nBarber, Bklyn. Ent. Soc. B. 26: 185-
 186, 1931.
- Oncideres cingulatus (Say) (Twig girdler)***
 iBrooks, Amer. For. 39: 313-314, 1933.
 iBrooks, Nature Mag. 22: 170-172, '33.
 Burkett, Tex. Dept. Agr. B. 111: 204-
 205, 1932.
 Lutken, S.C. Wkly. News Notes 19(16)
 1, 1930.
 McDaniel, Mich. Sp. B. 238: 16-17,
 1933.
 Moznette et al, USDA FB 1654: 49-53,
 1931.
 Porter, North, Nut Grow. Assoc. R. 23:
 79, 1932.
 Walker, Fla. R. f. 1932: 84.
 Zappe, Conn. B. 327: 576, 1931.

- Onciuerosoma spp.**
in Silvestri, Amer. Mus. Nov. 565: 1-4, 1932.
- Oncocephalus spp.**
Barber, Ent. Amer. n.s. 10: 227-230, 1930.
- Oncocnemis modesta**
n McDunnough, Can. Ent. 65: 203, 1933.
- Oncocnemis saundersiana**
McDunnough, Can. Ent. 65: 121, 1933.
- Oncocnemis tinkhami**
n McDunnough, Can. Ent. 65: 202-203, 1933.
- Oncometopia lateralis**
Folsom, USDA FB 1688: 24-25, 1932.
- Oncometopia undata**
bi Ewing & McGarr, J. Ec. Ent. 26: 943-953, 1933.
Folsom, USDA FB 1688: 24-25, 1932.
- Walker, Flow. Grow. 17: 309, 1930.**
i Watson & Berger, Fla. Ext. B. 67: 123-124, 1932.
Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(6): 55-56, 1931.
- Oncomyia frontalis, longipalpis**
n Van Duzee, Ann. Ent. Soc. Amer. 27: 321-322, 1934.
- Oncopeltus fasciatus**
bi Andre, Iowa St. Col. J. Sci. 9(1): 73-87, 1934.
- Onion insects**
Agete, Rev. de Agr. Cuba 14(14): 15-20, 1933.
Amargos, Rev. de Agr. Cuba 13(1): 16, 1931.
Beattie, USDA FB 354, rev.: 25-26, 1930.
Buchanan & Stevenson, Iowa R. f. 1933: 71-72.
i Caesar, Ont. Dept. Agr. B. 359: 49-54, 1931.
Drake, Iowa Agr. Res. R. f. 1931: 61.
Drake, Iowa R. f. 1932: 57-58.
Drake, Iowa R. f. 1934: 95-96.
i Essig & Hopkins, Cal. Ext. C. 87: 65-66, 1934.
i Gilbert & Popenoe, USDA FB 1371 rev.: 28-29, 1934.
Hawthorn, Tex. C. 65: 8, 1932.
Hayes, Oreg. St. Hort. Soc. R. 24: 87, 1932.
- bi Jones & Emsweller, Amer. Soc. Hort. Sci. P. 31: 160-164, 1934.
Lloyd, Ill. C. 410: 15-16, 1933.
Smith, J. Ec. Ent. 25: 1110-1111, 1932.
Stoutamire, Fla. Dept. Agr. B. 39, n.s.: 17-18, 1930.
i Wilkinson, Conn. (Storrs) Ext. B. 196: 25, 1933.
Wolcott, Ec. Ent. of West Indies: 630-633, 1933.
- *Onion maggot, see Hylemya antiqua**
***Onion thrips, see Thrips tabaci Lind.**
- Onochares, O. brazoria**
n Banks Psyche 40: 9-10, 1933.
- Onophas distigma, watsoni**
n Bell, J. N.Y. Ent. Soc. 38: 149-150, '30.
- Onthophagus cribricollis**
Sim, J. N.Y. Ent. Soc. 38: 141, 1930.
- Onthophagus incentus**
Pemberton, Hawaiian Sugar Pl. Assoc. R. f. 1934: 26.
- Onthophagus janus, pennsylvanicus**
Cuvillier & Jones, J. Parasit. 19: 245, 1933.
- Onychiurus armatus**
b Folsom, J. Ec. Ent. 26: 935, 1933.
Holloway, Facts about Sugar 27: 65, 1932.
Ingram, Sugar B. 12(12): 4, 1934.
Spencer & Stracener, J. Ec. Ent. 23: 680-684, 1930.
- Onychiurus obesus, parvicornis**
in Mills, Collembola of Iowa: 33-35, 1934.
- Ooetonus spp.**
n Whittaker, P. Ent. Soc. Wash. 33: 189-192, 1931.
- Oodemas corticis**
Swezey, Hawaiian Pl. Rec. 36: 140, '32.
- Oodemas paludicola, rubicola**
n Perkins, Hawaiian Ent. Soc. P. 8: 267, 269, 1933.
- Oodemas striatipenne**
n Perkins, Hawaiian Ent. Soc. P. 7: 513, 1931.
- Oodemas viridipenne**
n Perkins, Hawaiian Ent. Soc. P. 8: 267-268, 1933.
- Ooencyrtus johnsoni**
White & Brannon, USDA FB 1712: 5, 1933.
- Ooencyrtus kuvanae**
Collins & Jones, USDA YB f. 1932: 237.

- iParker, J. Agr. Res. 46: 23-34, 1933.
- Oopsis nutator**
Swezey, Hawaiian Ent. Soc. P. 8: 6, 1932.
- Ootetrastichus formosanus** Timb.
Swezey, Hawaiian Ent. Soc. P. 7: 387, 483, 1931.
- biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 257, 1931.
- Ootua antenuata**
Mumford, Hawaiian Ent. Soc. P. 8: 224, 1933.
- Ophelosia crawfordi**
bCompere & Flanders, J. Ec. Ent. 27: 976, 1934.
Smith & Compere, J. Ec. Ent. 24: 1109-1110, 1931.
- Ophiderma** spp.
nBall, P. Biol. Soc. Wash. 45: 78-80, '32.
- Ophiogomphus** spp.—Nymphs—Key
biWalker, Can. Ent. 65: 217-229, 1933.
- Ophiola cornicula**
Goldsworthy, Wis. Cranb. Grow. Assoc R. 48: 27, 1934.
- Ophiola luteola**
nSleesman, Ent. Amer. n.s. 10: 120-121, 1929.
- Ophiola striatula** (Blunt-nosed leafhopper)
Beckwith, Amer. Cranb. Grow. Assoc. P. 60: 17, 1930; P. 62: 10-11, 1932.
Blisard, Amer. Cranb. Grow. Assoc. P. 62: 9-16, 1931.
Burdette, N.J. Dept. Ent. R. f. 1930: 172, 1931.
Chambers, Wis. Cranb. Grow. Assoc. R. 44: 28-31, 1930.
- iChambers, Wis. Dept. Agr. B. 115: 56, 1931; B. 141: 107-108, 1933.
Franklin, Mass. B. 271: 249, 1931.
Goldsworthy, Wis. Hort. 24(1): 8, '33.
Goldsworthy, Wis. Cranb. Grow. Assoc R. 48: 27, 1934.
Twinn, Ent. Soc. Ont. R. 65: 121, 1934.
- Ophiola striatula**—Dusting
Gilliat, N.S. Fr. Grow. Assoc. R. 71: 53, 1934.
- Ophiola striatula**—Spraying
Beckwith & Doehlert, N.J. R. 52: 201, 1931.
- Ophiola striatula**, Cranberry false blossom
Beckwith, N.J. R. 51: 172, 1930.
iBeckwith, N.J. C. 275, 1933, 4p.
- Beckwith, Amer. Cranb. Grow. Assoc. P. 64: 9-10, 1934.
- biDobrosky, Boyce Thompson Inst. Contrib. 3: 59-83, 1931.
Gebhardt, Wis. Cranb. Grow. Assoc. R. 48: 7, 1934.
- biKunkel, Que. Soc. Prot. Pl. R. 25/26: 30, 1934.
- Scammell, Wis. Cranb. Grow. Assoc. R. 44: 8-13, 1930.
- Stevens, USDA C. 147: 1, 1931.
- Ophiomyia lantanae**
Swezey, Hawaiian Ent. Soc. P. 8: 382, 1934.
- Ophion bilineatum**
bEasterling, Ohio J. Sci. 34: 137, 1934.
- Ophionyssus serpentium** (Snake mite)
Caler, J. Kans. Ent. Soc. 4: 96, 1931.
- biSchroeder, J. Ec. Ent. 27: 1004-1014, 1934.
- Ophioptes tropicalis**
inEwing, J. Parasit. 20: 53-56, 1934.
- Ophistomis insularis**
nFisher, PUSNM 80(22): 56-58, 1932.
- Ophyra trochanterata**
nMalloch, Bernice P. Bishop Mus. B. 98: 196-198, 1932.
- Opius bellus**
nGahan, PUSNM 77(8): 1-2, 1931.
- Opius crawfordi**—Temperature and humidity
biDarby & Kapp, USDA TB 444: 10-19, 1934.
- Opius fletcheri**
Willard, Pac. Sci. Cong. 4, P. 4: 137, 1930.
- Opius gahani**
nMuesebeck, PUSNM 79(16): 11-12, 1931.
- Opius humilis**
bMason, J. Ec. Ent. 27: 891-897, 1934.
Smith, Diamond Walnut News 13(6): 5, 1931.
- Opius hydrelliae**
Muesebeck, P. Ent. Soc. Wash. 35: 197-198, 1933.
- Opius lectoides**
nGahan, PUSNM 77(8): 2-3, 1931.
- Opius melleus**
biLathrop & Newton, J. Agr. Res. 46: 143-160, 1933.

- Opius melleus* *Const'd*
 Lathrop & Nickels, USDA TB 275: 47-48, 1932.
 Marlatt, USDA Ent. R. f. 1930: 20.
- Oplopus dichrous*
 Plummer & Landis, Ann. Ent. Soc. Amer. 25: 701, 1932.
- Opogona glycyphaga*
 Holloway, Facts about Sugar 27: 356, 1932.
- Opostega*—Key
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 149, 1930.
- Oppia cronus*
 in Jacot, Bernice P. Bishop Mus. B. 121: 25-28, 1934.
- Opshomala cylindrodes*
 Caudell, PUSNM 80(21): 2-3, 1932.
- Opsiphanes, O. cassina*
 Bates, Bklyn. Ent. Soc. B. 27: 156-161, 1932.
- Opsiuss stactogalus*
 biHarding, J. Kans. Ent. Soc. 3: 7-20, 1930.
 Swezey, Hawaiian Ent. Soc. P. 7: 340-341, 354, 1931.
- Opter brongniarti*
 bCarpenter, Amer. J. Sci. ser. 5, 21: 118-119, 1931.
- Orange calyx worm, see Platynota stultana*
- *Orange dog, see Papilio thoas*
- Orange insects*
 biMcGregor, J. Ec. Ent. 27: 974-977, '34.
 Serrat, La Hacienda 25: 538, 1930.
 Van Hermann, La Hacienda 25: 556, 1930.
 Watson, Cit. Ind. 17(11): 16, 1936.
 Yothers, Miller & Basset, Cit. Indus. 14(6): 23, 1933.
- Orange peel miner, see Marmara sp.*
- *Orange-striped oak worm, see Anisota senatoria (S. & A.)*
- Orange sulfur butterfly, see Colias (Eurytheme) eurytheme*
- Orange thrips, see Scirtothrips citri*
- *Orange tortrix, see Argyrotaenia citrana*
- Orchard heating*
 Burkholder, Fruits & Gardens 47(2): 11, 1931.
 Daybell, Cal. Cit. 16: 182-183, 1931.
 iShanks, Cal. Cit. 16: 359, 404, 1931.
 Weldon, Pac. Rur. Press 119(1): 7, '30.
- Young, Cal. Cit. 15: 326, 1930; 17: 454, 1932.
- †*Orchard insects*
 Agete, Rev. de Agr. Cuba 14(3): 78-80, 1932.
 Archibald, Can. Dept. Agr. Expt. Farms R. f. 1929: 26-27, 1930.
 Bailey, Vt. St. Comm. Agr. Bien. R. 17: 69, 1934.
 Barss & Mote, Oreg. Ext. B. 431: 5-31, 1931.
 Bentley, Tenn. St. Hort. Soc. P. 25: 89-92, 1930.
 Bourne, Mass. Fr. Grow. Assoc. R. 38: 162-164, 1932.
 Bourne & Whitcomb, Mass. Fr. Grow. Assoc. R. 40: 71-73, 1934.
 Braunton, Cal. Cult. 74: 620-621, 1930.
 Bruner, Cuba Santiago de las Vegas. C. 75, 1931, 12p.
 Caesar et al, Ent. Soc. Ont. R. 60: 7-8, 17-18, 1929; R. 63: 13-15, 1932; R. 65: 40-42, 1934.
 Callender, Ida. Dept. Agr. Bien. R. 6: 57, 1930.
 Chapman, Mass. Fr. Grow. Assoc. R. 39: 59-66, 1933.
 Coe, Utah C. 83: 25-26, 1930.
 Crosby, N.Y. St. Hort. Soc. P. 77: 7-16, 1932.
- iCrosby, Mills & Blauvelt, N.Y. (C.) B. 498, 1933, 83p.
 Doane, Common Pests: 123-172, 1931.
 Ducan, Ida. Dept. Agr. Bien. R. 6: 53, 1930.
 Dye, N.H. Hort. Soc. R. 19: 19-25, '30.
 Evans, Conn. Pom. Soc. P. 43: 59-65, 1933.
- iFitem, N.Mex. B. 209, 1933, 52p.
 iFleming et al, USDA C. 317, 1934, 7p.
 Flint, Ill. St. Hort. Soc. Trans. 64: 261-276, 1930.
 iFlint, Ky. Hort. Soc. Trans. 75: 40-51, 1930.
 iFlint & Farrar, Ill. Hort. Soc. Trans. 65: 148-170, 1931.
 Frison, Ill. Dept. Reg. & Ed. R. 14: 28, 1931.
 Garman, Conn. Pom. Soc. P. 44: 82-88, 1934.
 Gilliatt, Ent. Soc. Ont. R. 60: 6-9, '30.
 Godbout, Que. Pom. & Fr. Grow. Soc.

- R. 37: 51-65, 1930; R. 38: 109-112, 1931.
 Gould & Grace, USDA FB 727, rev.: 24-25, 1932.
 Greeves-Carpenter, House Beautiful 67: 313, 1930.
 Headlee, N.J. R. 50: 143-145, 1929; R. 51: 142-148, 1930; R. 52: 186-187, 1931.
 Headlee, N.J. Dept. Ent. R. f. 1930: 143-159, 1931.
 iHeaton, Purdue Agr. 26: 76, 1932.
 Kelsall, N.S. Fr. Grow. Assoc. R. 66: 59-61, 1930.
 Mackie, Cal. Agr. Mo. B. 21: 475-477, 1932.
 Mumford, Mo. Ext. C. 302: 42, 1933.
 iNewcomer, USDA C. 270, 1933, 76p.
 iParrott, N.Y. St. Hort. Soc. P. 77: 25-36, 1932.
 Peairs, W.Va. B. 244: 37, 1931.
 Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 32-37, 1930.
 iPotter et al., N.H. Ext. B. 47: 41-49, 1934.
 iQuaintance & Siegler, USDA FB 1666, 1931, 93p.
 Regan, Wash. St. Hort. Assoc. P. 25: 131, 1929.
 Richardson, Iowa Hort. Soc. Trans. 66: 8-18, 1931.
 Ross & Caesar, Ent. Soc. Ont. R. 62: 7-8, 1932.
 Safro, Ohio Hort. Soc. P. 63: 155-171, 1930.
 Schneiderhan, Peninsula Hort. Soc. Trans. 44: 90-97, 1930.
 Shropshire, Ill. St. Hort. Soc. Trans. 66: 307-312, 1932; 67: 366-367, 1934.
 bSnapp & Thomson, J. Ec. Ent. 27: 771-779, 1934.
 Sterns, Tenn. St. Hort. Soc. P. 25: 23-24, 1930.
 Symons, Md. Ext. R. 18: 62-63, 1933.
 Van Buren, N.Y. St. Hort. Soc. P. 76: 248-301, 1931.
 Welbourn, Ida. Dept. Agr. Bien. R. 6: 54-55, 1930.
 Yapp, Kans. Ent. Comm. Bien. R. 12: 7-14, 1931.
 Ida. News Letter 14: 6, 1930.
 Miss. St. Pl. Bd. Quar. B. 11: 13-15, '31.
 iMo. St. Hort. Soc. P. f. 1928-1930: 177-221.
 Ohio B. 500, 1932, 49p.
Orchard sanitation
 iBrittain & Coulson, J. Agr. & Hort. 36: 163, 1933.
 Essig & Hoskins, Cal. Ext. C. 87: 11-12, 1934.
 Flint, Iowa St. Hort. Soc. Trans. 68: 59-62, 1933.
 Headlee, N.J. St. Hort. Soc. P. f. 1931: 48-49.
 Newcomer, USDA C. 270: 74, 1933.
 Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 33-34, 1930.
 Wright, Diamond Walnut News 12(2): 8, 1930.
Orchelimum laticauda
 iSnodgrass, Smithson. Sci. Ser. 5: 35-37, 1930.
Orchelimum vulgare
 Hebard, Minn. TB 85: 43, 1932.
 Houser, Ohio B. 454: 73-74, 1930.
 biMetcalfe & Colby, J. Ec. Ent. 23: 97-109, 1930.
Orchesella annulicornis
 inMills, Collembola of Iowa: 78-79, 1934.
Orchestes pallicornis (Apple flea weevil)*
 iGodbout, Que. Min. de l'Agr. B. 124: 17-18, 1933.
 Houser, Ohio B. 446: 84, 1930.
 Houser, Ohio Hort. Soc. P. 63: 118-120, 1930.
 iPettit & Hutson, Mich. C.B. 137: 8-9, 1931.
Orchestes rufipes
 bNash, J. Ec. Ent. 27: 336-339, 1934.
Orchestes testaceus
 Frost, Bklyn. Ent. Soc. B. 25: 97, 1930.
***Orchid fly, see Eurytoma orchidearum**
Orchid insects
 Ames, Amer. Orchid Soc. B. 1: 91, 1932.
 Doane, Common Pests: 326-328, 1931.
Orchid weevil, see Diorymerellus laevimargo
Orchidophilus aterrimus
 Swezey, Hawaiian Ent. Soc. P. 7: 376, 1931.
Orchidophilus gilvotatus
 Swezey, Hawaiian Ent. Soc. P. 8: 241, 1933.

- Orchomene depressa, macroserrata**
in Shoemaker, PUSNM 77(4): 6-17, 1931.
- Orcus australasiae**
Essig, Hist. of Ent.: 309-312, 1931.
- Orcus chalybeus (Steel-blue ladybeetle)***
Essig, Hist. of Ent.: 312-316, 1931.
bSmith, Ann. Ent. Soc. Amer. 26: 522, 1933.
- Oreianthus, O. purpureus**
binTraver, Can. Ent. 63: 104-109, 1931.
- Orekthen**
nFunkhouser, J. N.Y. Ent. Soc. 38: 406-407, 1930.
- Orekthen darwini**
in Darwin, Ent. News 45: 203-204, 1934.
- Orekthen osborni**
in Funkhouser, J. N.Y. Ent. Soc. 38: 407, 1930.
- Orekthophora cornuta**
in Funkhouser, J. N.Y. Ent. Soc. 38: 412-413, 1930.
- Orgilus longiceps**
nMuesebeck, P. Ent. Soc. Wash. 35: 52-53, 1933.
- Orgilus obscurator**
bDowden, Ann. Ent. Soc. Amer. 27: 600, 1934.
- Orygia gonostigma, thyellina**
bClausen, USDA C. 168: 20, 1931.
- Oribatidae**
bJacot, Can. Ent. 65: 263-264, 1933.
bJacot, Ent. News, 45: 74-77, 1934.
- Oribatini**
nJacot, Bernice P. Bishop Mus. B. 121: 15, 1934.
- Oribatoidea**
bJacot, Amer. Nat. 64: 285-288, 1930.
iJacot, Bost. Soc. Nat. Hist. B. 63: 17-22, 1932.
Jacot, Psyche, 39: 59-63, 1932.
Jacot, Ent. News 44: 10-14, 1933.
biJacot, Ann. Ent. Soc. Amer. 27: 462-467, 1934.
biJacot, Bernice P. Bishop Mus. B. 121, 1934-99p.
- Oribotritia banksi**
biJacot, Bost. Soc. Nat. Hist. P. 39: 254-256, 1930.
- Oribotritia caroliniae**
binJacot, Bost. Soc. Nat. Hist. P. 39: 257, 1930.
- biJacot, Elisha Mitchell, Sci. Soc. J. 48: 260-266, 1933.
- Oribotritia glabrata**
biJacot, Elisha Mitchell Sci. Soc. J. 48: 258-260, 1933.
- Oribotritia virginicensis**
binJacot, Bost. Soc. Nat. Hist. P. 39: 257-258, 1930.
- Oriental bedbug, see Cimex hemipterus**
- *Oriental beetle, see Anomala orientalis**
- *Oriental cockroach, see Blatta orientalis**
- *Oriental fruit moth, see Grapholitha molesta**
- Oriental garden beetle, see Autoserica castanea**
- *Oriental moth, see Cnidocampa flavescens (Walk.)**
- Oriental peach moth, see Grapholitha molesta**
- *Oriental rat flea, see Xenopsylla cheopis**
- Oriental roach, see Blatta orientalis**
- Orientodoria**
nTownsend, J. N.Y. Ent. Soc. 40: 477, 1932.
- Orimarga (Orimarga) cubensis**
in Alexander, P.R. Dept. Agr. J. 16: 385-386, 1932.
- Orius (Triphleps) insidiosus**
Boyce, Hilgardia 8: 492, 1934.
biDitman & Cory, Md. B. 328: 471, 1931.
bMarshall, J. Kans. Ent. Soc. 3: 29-32, 1930.
Phillips & Barber, Va. TB 47: 10, 1933.
Smith & Weigel, J. Ec. Ent. 25: 316, 1932.
Weed, Insect Ways: 217-218, 1930.
Whitcomb, J. Ec. Ent. 27: 360, 1934.
Winburn & Painter, J. Kans. Ent. Soc. 5: 21-22, 1932.
- Orius persequens**
Illingworth, Hawaiian Ent. Soc. P. 7: 466-467, 1931.
- Orius tricolor**
Bailey, Hilgardia 7: 499-500, 1933.
Kirkpatrick, Cal. Cult. 80: 347, 1933.
biQuayle, Cal. B. 542: 19, 1932.
- Ormenis coffeacola**
in Dozier, Amer. Mus. Nov. 510: 16-17, 1931.
- Ormenis quanta, yumana**
nBall, Psyche 40: 147-149, 1933.

- Ormiscus angulatus, solidus**
inPierce, PUSNM 77(17): 6-7, 1930.
- Ormosia spp.**
nAlexander, J. N.Y. Ent. Soc. 41: 98-100, 1933.
- Ornamentals—Insects**
Britton, Conn. B. 327: 469-470, 1931.
Cory & Langford, Md. Ext. Serv. B. 68, 1933, 13p.
Dean, Kans. St. Hort. Soc. Bien. R. 41: 217, 1932.
iFelt & Rankin, Ins. & Dis. Ornamental Trees & Shrubs 1932, 507p.
Hamilton, N.J. R. 50: 203-207, 1929; 52: 238-247, 1931.
Hamilton, J. Ec. Ent. 24: 162-169, '31.
Hamilton, N.J. Dept. Ent. R. f. 1930: 182-186, 1931.
bHamilton, Nat. Shade Tree Conf. P. 9: 59-73, 1933.
Hamilton, N.J. C. 334: 1934, 4p.
Hamilton, J. N.Y. Ent. Soc. 42: 242, '34.
Hedrick, N.Y. (Gen.) R. 49: 66-67, '30.
Hooker, USDA OES R. on Exp. Sta. f. 1931: 49, 1932.
Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 201-203, 1930.
McDaniel, Mich. Ent. R. f. 1930: 4.
Marlatt, USDA Ent. R. f. 1932: 7-8.
- Ornidia major**
nCurran, Amer. Mus. Nov. 413: 2, 1930.
- Ornithodoros coriaceus**
iHoffman, Anal. Univ. Nac. Mex. Inst. de Biol. 1: 163-164, 1930.
biTrue, Cal. Univ. Pub. Ent. 6: 21-48, 1932.
- Ornithodoros megnini (Ear tick)***
iBishopp, Smithsonian, R. f. 1933: 399.
biCooley, Mont. B. 268: 9, 1932.
iHall, USDA FB 1330, rev.: 11, 1932.
iHoffman, Anal. Univ. Nac. Mex. Inst. de Biol. 1: 148-164, 1930.
iMohler, USDA FB 1625: 11, 1930.
Parr, USDA FB 1395, rev.: 42-43, '33.
iSchwartz, USDA C. 148: 45-48, 1930.
Schwarz et al., USDA C. 148: 45-48, 1933.
- Ornithodoros moubata**
Bequaert, Amer. Mus. Nov. 426: 5, '30.
biBequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 812-814, 1930.
- biMatheson, Med. Ent.: 52, 1932.
- Ornithodoros nicollei**
inMooser, Mex. Univ. Nac. Inst. Biol. Anal. 3: 127-131, 1932.
- Ornithodoros spp.—Relapsing fever**
bHearle, Can. Med. Assoc. J. 30: 494-497, 1934.
- Ornithodoros talaje**
Dunn, Psyche 38: 170-174, 1931.
iHoffman, Mex. Univ. Nac. Inst. Biol. Anal. 1: 161-163, 1930.
- Ornithodoros talaje—Relapsing fever**
bDunn & Clark, Amer. J. Trop. Med. 13: 201-209, 1933.
- Ornithodoros turicata**
iBishopp, Smithsonian, R. f. 1933: 399-400.
iHoffman, Mex. Univ. Nac. Inst. Biol. Anal. 1: 157-160, 1930.
Mooser, J. Exp. Med. 54: 572, 1931.
- Ornithodoros turicata—Relapsing fever**
bBruce, J. Kans. Ent. Soc. 7: 87-89, '34.
Francis, J. Amer. Med. Assoc. 99: 70-71, 1932.
bHoffman, B. Assoc. Med. P.R. 24: 659, 1932.
- Ornithodoros venezuelensis—Relapsing fever**
bDunn & Clark, Amer. J. Trop. Med. 13: 201-209, 1933.
Hanson, Fla. Med. Assoc. J. 16: 400-401, 1930.
- Ornithoica confluenta**
Ferris, Can. Ent. 62: 70, 1930.
- Ornix geminatella**
iQuaintance & Siegler, USDA FB 1270, rev.: 61-62, 1931.
- Ornix prunivorella**
iSmith, J. Kans. Ent. Soc. 7: 50, 1934.
- Orobanchus falli 122-123, montanus 121-122, mormonus 122**
inMank, Pan-Pac. Ent. 10: 1934.
- Oropeza johnsonella**
nAlexander, Bklyn. Ent. Soc. B. 25: 279-280, 1930.
- Oropeza sayi—Parasites**
Rogers, Ecol. Monog. 3(1): 35, 1933.
- Oropeza walleyi**
Alexander, Can. Ent. 63: 139-143, '31.
- Orothreptes callithrix**
Swezey, Hawaiian Ent. Soc. P. 8: 370, 1934.

- Orsonjohnsonus**
 nHatch, Pan-Pac. Ent. 9: 119-120, 1933.
- Ortaliidae**
 Curran, BAMNH 58: 174-177, 1929.
 Curran, Amer. Mus. Nov. 456: 16-18, 1931.
- Ortalmiia**
 nCurran, Fam. & Gen. of North Amer. Diptera: 284, 1934.
- Orthaea nigriceps**
 Krauss, Hawaiian Ent. Soc. P. 8: 393, 1934.
- Orthaea sp.**
 Watson, Fla. Ent. 15: 71, 1932.
- Orthezia insignis (Greenhouse orthezia)***
 iMcDaniel, Mich. Sp. B. 214: 67-68, 1931.
- Orthocladus julia**
 nCurran, BAMNH 61: 34, 1931.
- Orthomorpha coarctata**
 Bruner, Rev. de Agr. Cuba 14(7): 86, 1933.
- Orthomorpha gracilis**
 iMcDaniel, Mich. Sp. B. 214: 25-26, 1931.
- Orthopleura damicornis**
 Knull, Ent. News 43: 43, 1932.
- Orthopodomys**
 biMatheson, Mos. of North Amer.: 202-204, 1929.
- Orthopodomys signifer**
 Stearns et al, Del. B. 181: 86, 1933.
- Orthoptera**
 Alexander, Col.-Wyo. Acad. Sci. J. 1(5): 81, 1933.
 biBodine, Physiol. Zool. 5: 538-554, '32.
 Brown, Can. Ent. 66: 209-211, 1934.
 Buckell, B.C. Ent. Soc. P. 27: 17-51, 1930.
 Caudell, PUSNM 8c(21), 1932, 7p.
 biFulton, Ann. Ent. Soc. Amer. 23: 611-641, 1930.
 bFulton, Elisha Michell Sci. Soc. J. 47(1): 55-69, 1932.
 biHebard, P. Acad. Nat. Sci. Phila. 81: 303-425, 1929; 82: 377-403, 1930; 83: 119-227, 1931; 84: 251-257, '33.
 inHebard, Trans. Amer. Ent. Soc. 57: 113-127, 1931; 58: 201-371, 1932; 59: 13-67, 108-144, 363-376, 1933; 60: 31-56, 281-294, 1934.
 Hebard, Minn. TB 85, 1932, 61p.
- Hebard, Ent. News 44: 61-65, 231-235, 1933; 45: 103-106, 179-180, 1934.
- biHebard, Ill. Nat. Hist. Surv. B. 20: 125-279, 1934.
- Hebard, J. Kans. Ent. Soc. 7: 25-36, 1934.
- Isely, Ent. News 45: 5-8, 1934.
- biRehn, P. Acad. Nat. Sci. Phila. 85: 39-66, 1933.
- Tanner & Olsen, Utah Acad. Sci. P. 6: 30-31, 1929.
- Orthoptera—Diurnal rhythm**
 Lutz, Amer. Mus. Nov. 550, 1932, 24p.
- Orthoptera—Eggs**
 biBodine, Physiol. Zool. 6: 150-158, '33.
 biBodine, Physiol. Zool. 7: 459-463, '34.
 biBodine & Wolkin, Physiol. Zool. 7: 464-469, 1934.
 biBurkholder, Physiol. Zool. 7: 247-270, 1934.
- Orthoptera—Protozoan parasites**
 Seamans, J. Parasit. 20: 125-126, 1933.
- Orthoptera and rains**
 Hendrickson, Iowa Acad. Sci. P. 40: 238-239, 1934.
- Orthosoma (Derobrachus) brunneum**
 iGoldman, Trans. Amer. Ent. Soc. 59: 96-97, 1933.
- Orthotylus ferox**
 Sweet, J. Ent. & Zool. 22: 81, 1930.
- Orthotylus translucens**
 Jones, J. Ec. Ent. 25: 136, 1932.
- Oruga babosa, see Thoesa cinereamarginata**
- Oryctes rhinoceros**
 Arango, Rev. de Agr. Cuba 14(10): 51-54, 1933.
 Farley, Rev. de Agr. Cuba 12(6): 33, 1930.
 Wester, Rev. de Agr. Cuba 13(10): 35-36, 1932.
- Oryzaephilus surinamensis (L.) (Saw-toothed grain beetle)***
 iBack & Cotton, USDA FB 1260, rev. 1930: 28.
 iHerrick & Griswold, N.Y. (C.) Ext. B. 202, rev. 53, 1934.
 iHodges, Nat. & Amer. Miller, 62(3): 51, 1934.
 iMcDaniel, Mich. Quar. B. 16: 168, '34.
 iParks & Jones, Ohio Ext. B. 97 rev.: 3, 1933.

- iSanderson, Ins. Pests Farm, ed. 3: 479, 1931.
- bSchwardt, Ark. B. 309, 1934, 14p.
- iSimmons, Reed & McGregor, USDA C. 157: 43-45, 1931.
- bStirrett & Arnott, Ent. Soc. Ont. R. 63: 51-54, 1932.
- Twinn, Ent. Soc. Ont. R. 64: 79, 1933.
- Twinn, Que. Soc. Prot. Pl. R. 25/26: 56-57, 1934.
- Osbornellus, O. cocanus, ritanus**
- nBall, J. Wash. Acad. Sci. 22: 17-18, 1932.
- Oscinella forbesi**
- nCurran, Amer. Mus. Nov. 456: 12, '31.
- Oscinosoma uahukae**
- nMalloch, Bernice P. Bishop Mus. B. 98: 217, 1932.
- Osmia spp.**
- nCockerell, Pan-Pac. Ent. 9: 26-27, 158-159, 1933.
- inCockerell, Amer. Mus. Nov. 466: 1-3, Nov. 452: 1, 1931.
- nCockerell, Bklyn. Ent. Soc. B. 29: 17-18, 1934.
- bHicks, Univ. Col. Studies 21: 267-268, 1934.
- Rodeck, Ent. News 45: 66, 1934.
- Osmoderma eremicola**
- iSim, USDA C. 334: 10-11, 1934.
- Osmoderma scabra**
- biZeliff, PUSNM 82(23): 1-3, 1934.
- Ospriocerus spp.**
- inBromley, J. N.Y. Ent. Soc. 42: 225, '34.
- nBromley, Ann. Ent. Soc. Amer. 27: 89, 1934.
- Othreis fullonica**
- Flanders, Cit. Leaves 12(4): 16, 1932.
- Otidoccephalus, see Myrmex**
- Otiobius megnini, see Ornithodoros megnini**
- Otiiorhynchinae—Larvae**
- biKeifer, Ent. Amer. n.s. 13: 45-84, 1932.
- Otiiorhynchus, see Brachyrhinus**
- Otitidae—Marquesas**
- bMalloch, Bernice P. Bishop Mus. B. 98: 205-215, 1932.
- Otodectes agnotes**
- Shillinger, J. Amer. Vet. Med. Assoc. n.s. 29(1): 77-79, 1930.
- Otodectes cynotis (Ear mange mite)**
- Errington, Vet. Med. 25: 343, 1930.
- iHall, USDA C. 338 rev.: 6-7, 1934.
- Hanson, Black Fox Mag. 16(4): 10, 12, 1932.
- Rawson, Sci. Month. 39: 509, 1934.
- biSchulz, Vet. Med. 29: 324-325, 1934.
- Black Fox Mag. 17(2): 19, 1933.
- Otodectes cynotis furonis**
- biAllen, Amer. fur breeder 5(5): 24-25, 1932.
- Ouelletia**
- nCurran, Fam. & Genera of North Amer. Diptera: 410, 1934.
- Overflow worm, see Agrotis ypsilon**
- Ovicides, see Insecticides—Ovicides**
- Ox bot, see Hypoderma spp.**
- Oxacus collaris**
- Swezey, Hawaiian Ent. Soc. P. 8: 10, 1932; P. 8: 273, 1933.
- Oxya chinensis (Chinese grasshopper)**
- Holloway, Facts about Sugar 28(5): 219, 1933.
- Pemberton, Facts about Sugar 27: 485, 1932.
- Pemberton, Hawaiian Ent. Soc. P. 8: 251-252, 511, 1933-1934.
- Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 428, 1931.
- Swezey, J. Ec. Ent. 24: 947, 1931.
- Swezey, Mid-Pac. Mag. 42: 327, 1931.
- Oxya chinensis—Parasites**
- Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 49, 1932.
- Pemberton, Hawaiian Sugar Pl. Assoc. P. 51: 584, 1932; R. f. 1934: 25.
- bPemberton, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 3 [P. Pt. 2]: 1-2, 1932.
- biPemberton, Hawaiian Ent. Soc. P. 8: 243, 253-264, 1933.
- iPemberton, Hawaiian Pl. Rec. 37: 7-9, 1933.
- Swezey, J. Ec. Ent. 24: 947, 1931.
- Swezey, Hawaiian Ent. Soc. P. 8: 228, 1933.
- Oxybelus spp.**
- Pate, Bklyn. Ent. Soc. B. 25: 40-41, 1930.
- Oxyhaloa conia**
- inRehn, P. Acad. Nat. Sci. Phila. 83: 380-383, 1931.
- Oxylys citrinellus**
- iComstock, So. Cal. Acad. Sci. B. 30: 18-20, 1931.

- Oxynopsalia**
 nCurran, Fam. & Genera of North Amer
 Diptera: 467-468, 1934.
- Oxynotus**, *see* **Oxytettix**
- Oxypleurites dentatus** 39-40, *dentilobis* 28
 iHodgkiss, N.Y. (Gen.) TB 163: 1930.
- Oxyptilus periscelidactylus** (Fitch) (Grape
 plume moth)*
 Pettit, Mich. Sp. B. 239: 16, 1933.
- Oxytettix**
 Rehn, P. Acad. Nat. Sci. Phila. 81: 482,
 1929.
- Oxyuridae**
 Christie, J. Agr. Res. 42: 463-482, '31.
- ***Oystershell scale**, *see* **Lepidosaphes ulmi**
- Ozamia clarefacta**
 Mortensen, Cactus & Succul. Soc.
 Amer. J. 1: 172, 1930.
- Ozyptila** spp.
 iBryant, Psyche 37: 375-391, 1930.
- Paches festiva**, *loxus f. gladius*
 Williams & Bell, Trans. Amer. Ent.
 Soc. 60: 278-279, 1934.
- Pachnaeus litus** (Citrus root-weevil)
 Amer. Agr. Chem. Co. Rev. de Agr.
 Cuba 13(6): 45, 1931.
 iBruner, Rev. de Agr. Cuba 14(19): 35-
 40, 1934.
 iWatson & Berger, Fla. Ext. B. 67: 121-
 122, 1932.
- Pachnobia morandi**
 nBenjamin, Pan-Pac. Ent. 10: 88, 1934.
- Pachodynerus** (**Pachodynerus**) **jamaicensis**
 nBequaert & Salt, Ann. Ent. Soc. Amer.
 24: 787-790, 1931.
- Pachodynerus nasidens**
 Dow, Psyche 39: 12, 1932.
 Illingworth, Hawaiian Ent. Soc. P. 7:
 352-353, 1931.
 Williams, Hawaiian Ent. Soc. P. 7: 344,
 1931.
- Pachodynerus scrupeus bahamensis**
 Bequaert & Salt, Ann. Ent. Soc. Amer.
 24: 786, 1931.
- Pachybrachis hybridus**
 Sweet, J. Ent. & Zool. 22: 94, 1930.
- Pachybrachys**, *see* **Pachybrachis**.
- Pachycæpoides dubius**
 Swezey, Hawaiian Ent. Soc. P. 8: 389,
 1934.
- Pachydiplax longipennis**
 bByers, Univ. Fla. Pub. Biol. Sci. Ser.
 1(1): 264, 1930.
- Pachygraphomyia**, **P. spinosa**
 inHall, BAMNH 66: 259-260, 1933.
- Pachynematus ocreatus** (Yellow-headed
 spruce sawfly)*
 biMitchener, Ent. Soc. Ont. R. 61: 22,
 1931; R. 62: 57-61, 1932.
 Mitchener & Criddle, Ent. Soc. Ont. R.
 60: 25, 1930.
 Twinn, Ent. Soc. Ont. R. 64: 74, 1933.
 Twinn, Ent. Soc. Ont. R. 65: 122, 1934.
- Pachynomus americanus, confusus**
 nHarris, Carnegie Mus. Ann. 19: 242-
 243, 1930.
- Pachyophthalmus signatus**
 Rau, Bklyn. Ent. Soc. B. 30: 68, 1935.
- Pachyprotasis omega**
 Ross, Ann. Ent. Soc. Amer. 24: 110,
 1931.
- Pachypsylla** spp.
 Felt & Bromley, Nat. Shade Tree Conf.
 P. 6: 20, 1930.
- Pachyschelus atrifrons, atroviridis**
 iFrost, Ann. Ent. Soc. Amer. 24: 397-
 398, 1931.
- Pachyschelus psychotriæ**
 nFisher, P. Ent. Soc. Wash. 33: 42-43,
 1931.
 iFrost, Ann. Ent. Soc. Amer. 24: 398,
 1931.
- Pachyschelus valerio**
 nFisher, PUSNM 82(27): 41-42, 1933.
- Pachysphinx modesta**
 McDaniel, Mich. Sp. B. 243: 48, 1933.
- Pachystethus lucicola**
 iBritton, Conn. B. 360: 474, 1934.
 iSim, USDA C. 334: 5, 1934.
- Pachyzancla bipunctalis** (Southern beet
 webworm)*
 Stoner, Fla. Ent. 14: 21-22, 1930.
- ***Pacific coast tick**, *see* **Dermacentor occidentalis**
- ***Pacific coast wireworm**, *see* **Limonius canus**
- ***Pacific flatheaded borer**, *see* **Chrysobothris mali**
- Pacific mite**, *see* **Tetranychus pacificus**
- Pacific oak clear wing**, *see* **Conopia mellinipennis**

- Pacific oak twig girdler**, *see* *Agrilus angelicus*
- Pacific peach tree borer**, *see* *Conopia opalescens*
- Pacificola** spp.
in Van Zwaluwenburg, Bernice P. Bishop Mus. B. 98: 131-143, 1932.
- Packard's locust**, *see* *Melanoplus packardii*
- Packing boxes—Sterilization**
Childs, Better Fruit 27(10): 9, 1933.
Newcomer, Better Fruit 27(10): 6, '33.
- Packing houses—Sanitation**
Gould, Mountaineer Grow 5(55): 1-3, 1934.
Schoene, Va. Fr. 22(8): 21-22, 1934.
- Packing houses—Screening**
[Burkholder], Ohio Farm. 170: 106, '32.
Davis, Mountaineer Grow. 4(38): 8, 1933; 5(56): 3, 1934.
Davis, Va. Fr. 22(12): 6, 1934.
Gould, Mountaineer Grow. 5(55): 1-3, 1934.
Haseman, Mo. B. 334: 15-16, '34.
Schoene, Va. Fr. 20(3): 14, 16, 18, 1932.
Simpson, Md. St. Hort. Soc. P. 36: 22-23, 1934.
- Packing materials—Insects in**
Cal. Dept. Agr. Sp. Pub. 115: 177, '32.
- Paducia, P. aulenna**
nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 167-176, 1931.
- Paederus signaticornis**
Bequaert, Bklyn. Ent. Soc. B. 27: 107-112, 1932.
- Pagasa bimaculata**
nHarris, Carnegie Mus. Ann. 19: 244-245, 1930.
- Pagasa luctuosa**
nVan Duzee, Pan-Pac. Ent. 8: 94-95, 1931.
- Pagasa similis**
Harris, Carnegie Mus. Ann. 19: 245, 1930.
- *Painted beauty**, *see* *Vanessa virginiensis*
- *Painted lady**, *see* *Vanessa cardui*
- Pajaroello tick**, *see* *Ornithodoros coriaceus*
- Palaemnema** spp.
in Calvert, Trans. Amer. Ent. Soc. 57: 1-111, 1931.
- Pale green raspberry aphid**, *see* *Rhopalosiphum rubiphila*
- Pale legume bug**, *see* *Lygus elisus*
- *Pale-sided cutworm**, *see* *Agrotis malefida*
- *Pale-striped flea beetle**, *see* *Systema blanda*
- *Pale tussock moth**, *see* *Halisidota tessellaris*
- *Pale western cutworm**, *see* *Agrotis orthogonia*
- Paleacrita vernata** (Spring cankerworm)*
Britton, Conn. B. 344: 72, 1933.
Caesar, Ont. B. 356: 35-37, 1930.
Liston, Kans. Ent. Com. Bien. R. 13: 9, 1932.
- biLockwood**, Cal. Agr. Mo. B. 22: 331-333, 1933.
- iMcDaniel**, Mich. Sp. B. 243: 30-32, 1933.
- iMunro & Riddle**, N. Dak. C. 42 rev.: 20-21, 1933.
- Pickett**, Pac. Rur. Press 120: 153, 1930.
- iQuaintance & Siegler**, USDA FB 1270 rev.: 39-41, 1931.
- Ross**, Can. Dept. Agr. B. 129: 46, 1930.
- iSlagle**, Rur. N.Y. 89: 635, 1930.
- iSmith**, J. Kans. Ent. Soc. 5: 75-76, '32.
- Pales pavidus**
Brown, USDA C. 176: 14, 1931.
- *Pales weevil**, *see* *Hylobius pales* (Hbst.)
- Pallid tree cricket**, *see* *Oecanthus niveus*
- Pallodes plateosus**
nSchaeffer, Bklyn. Ent. Soc. B. 26: 174-175, 1931.
- Palm leaf skeletonizer**, *see* *Homaledra sabalella*
- Palmacorixa** spp.
in Walley, Can. Ent. 62: 99-106, 1930.
- Palmaricoccus, P. spp.**
binStickney, USDA TB 404: 49-79, 1934.
- *Palmerworm**, *see* *Dichomeris ligulella*
- Palonica—Key**
nBall, Ent. Amer. n.s. 12: 34-35, 1931.
- Palonica nogalana**
nBall, P. Biol. Soc. Wash. 46: 25, 1933.
- Palonica pyramidata portola**
in Ball, Ent. Amer. n.s. 12: 36-37, 1931.
- Palorus ratzeburgi**
Back & Cotton, USDA FB 1260 rev.: 35, 1930.
- Pamera** spp.
Brooks, Watson & Mowry, Fla. Coop. Ext. B. 63: 44-46, 1932.
Watson, Fla. B. 232: 87-88, 1931.

Pamphantinae

nBarber & Bruner, J. N.Y. Ent. Soc. 41: 532, 1933.

Pamphantus atrohumeralis, pallidus

nBarber & Bruner, J. N.Y. Ent. Soc. 41: 536-538, 1933.

Pamphantus vittatus

inBruner, Bklyn. Ent. Soc. B. 27: 141-144, 1932.

Pamphilius dentatus

Britton, Conn. B. 344: 87, 1933.

Panamasilus, P. xylota

inCurran, Amer. Mus. Nov. 425: 20, '30.

Panamenia

inCurran, Fam. & Genera of North Amer. Diptera: 323, 1934.

Panaphelix asteliana

inSwezey, Hawaiian Ent. Soc. P. 8: 202, 1932.

Panchlora cubensis (Cuban cockroach)*

Buckell, B.C. Ent. Soc. P. 27: 29-30, 1930.

Davis, J. N.Y. Ent. Soc. 38: 85-88, '30.

Pandemis limitata (Three-lined leaf roller)

biGilliat, Sci. Agr. 12: 506-521, 1932.

Hall, Ent. Soc. Ont. R. 64: 22, 1933.

Pandemis pyrusana

Hutchison, Cal. R. f. 1930/1931: 68, 1932.

Pandora moth, see Coloradia pandora*Pangaeus bilineatus (Burrower bug)**

Brooks, Watson & Mowry, Fla. Co-op. Ext. B. 63: 51, 1932.

Watson, Fla. B. 232: 91, 1931.

Pangaeus uhleri

Gould, J. Ec. Ent. 24: 484-486, 1931.

Hyslop, J. Ec. Ent. 27: 564, 1934.

Panorpa spp.

binCarpenter, B. Mus. Comp. Zool. 72: 213-257, 1931.

Carpenter, Bklyn. Ent. Soc. B. 27: 149-150, 1932.

Pantala—Key

Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 71-72, 1932.

Pantala flavescens

Williams, Hawaiian Ent. Soc. P. 8: 8, 1932.

Pantala hymenaea

Williamson, Mich. Univ. Occ. Pap. 240: 38-40, 1932.

Panteliella fedtschenkoi

Weld, P. Ent. Soc. Wash. 32: 143, 1930.

Pantomorus fulleri, see Pantomorus godmani**Pantomorus godmani (Fuller's rose beetle)***

biBarrett, Cal. Univ. Pub. Ent. 5(5): 90-91, 1930.

bBritton, Conn. B. 315: 585-587, 1930; B. 344: 156-157, 1933.

Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 63, 1930.

Cook & Walker, Va. Truck B. 79: 1064, 1932.

iEssig, Hist. of Ent.: 173-177, 1931.

iEssig & Hoskins, Cal. Ext. C. 87: 42, 1934.

Keifer, Ent. Amer. n.s. 13: 53-54, 1932.

iLockwood, Cal. Agr. Mo. B. 19: 22, '30.

McDaniel, Mich. Sp. B. 214: 96-97, 1931.

Pemberton, Hawaiian Ent. Soc. P. 8: 510, 1934.

bQuayle, Cal. B. 542: 55-57, 1932.

iSmith, Cal. B. 505: 36-37, 1931.

Smith, P. Ent. Soc. Wash. 36: 49, 1934.

iSnapp, USDA FB 1557 rev.: 37-38, '31.

Swezey, Hawaiian Pl. Rec. 36: 144, '32.

biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 205-208, '31.

Papaipema cataphracta (Burdock borer)

iDustan, Can. Dept. Agr. Ent. B. 32: 29, 1932.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 50-51, 1934.

Papaipema circumlucens

nBenjamin, Pan-Pac. Ent. 9: 101, 1933.

Papaipema depictata

nBenjamin, Pan-Pac. Ent. 9: 101-102, 1933.

Papaipema nebris nitela (Stalk borer)*

iBritton, Conn. Veg. Grow. Assoc. R. 17: 50-51, 1930.

iBritton, Conn. B. 344: 104, 1933.

iChambers & Thompson, Wis. Dept. Agr. B. 145: 73-74, 1933.

Compton, Ill. C. 391: 21, 1932.

Connor, N.J. C. 258: 18-19, 1932.

Davis, Ind. Acad. Sci. P. 39: 294, 1930;

P. 40: 309, 1931; P. 43: 197, 1933.

Davis, Ind. Ext. B. 186: 13, 1932.

biDecker, Iowa Res. B. 143, 1931. 351p.

- Decker, Iowa Agr. Res. R. f. 1931: 61, 1932.
 Douglass, Rice J. 35: 12, 1932.
 Dustan, Can. Dept. Agr. Ent. B. 32: 29, 1932.
 Hamilton, B. Amer. Dahlia Soc. 9(64): 14, 1933.
 iLacroix, Conn. B. 326: 430, 1931.
 iMunro & Riddle, N. Dak. C. 42 rev.: 54-55, 1933.
 Neiswander, Ohio B. 446: 87, 1930.
 iPettit, Mich. Ext. B. 177: 15, 1931.
 Popenoe, Flow. Grow. 20: 119, 1933.
 iSanderson, Insect Pests Farm, ed. 3: 95-97, 1931.
 iSchaeffer, Ind. Dept. Conserv. Pub. 103: 46-47, 1930.
 Walden, Conn. B. 315: 615-616, 1930.
 Wallace, Ind. YB f. 1930: 483.
 Wallace, Ind. Dept. Conserv. R. 13: 60, 1931.
 Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 34, 1932.
 Wallace et al., Ind. Dept. Conserv. R. 14: 54, 1932.
- Papaipema ochroptena**
 Benjamin, Pan-Pac. Ent. 9: 100, 1933.
- Papaipema purpurifascia** (Columbine borer)*
 Britton, Conn. B. 344: 97-98, 1933.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 51, 53, 1934.
 biGriswold, Ann. Ent. Soc. Amer. 27: 545-549, 1934.
 Herrick & Griswold, N.Y. (C.) R. 46: 106, 1933; (C.) R. 47: 86, 1934.
- Papaipema spp.**
 Benjamin, Pan-Pac. Ent. 9: 100-102, 1933.
 iBird, Can. Ent. 63: 183-187, 1931.
 Bird, Ann. Ent. Soc. Amer. 27: 551-556, 1934.
 iPieper, Burlison & Flint, Ill. B. 344: 277-278, 1930.
- ***Papaya fruitfly**, *see* *Toxotrypana curvicauda*
- Papaya insects**
 Pope, Hawaii B. 61: 34, 1930.
 Wolcott, Ec. Ent. of West Indies: 496-502, 1933.
- Papilio anchisiades**
 bBates, Fla. Ent. 17: 45, 1933.
- Papilio aristodemus**
 Bates, Ent. News 45: 167, 1934.
- Papilio cressphontes**
 Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(6): 43-44, 1931.
 Gunder, Can. Ent. 65: 171, 1933.
 iWatson, & Berger, Fla. Ext. B. 67: 114-116, 1932.
- Papilio daunus**
 Calkins, Ent. News 42: 111, 1931.
- Papilio glaucus**
 iBeard, Amer. Boys' Bk. Bugs: 162-164, 1932.
 Herrick, Rur. N.Y. 91: 882, 1932.
 O'Byrne, Psyche 39: 35-36, 1932.
 iPrentice, Nature Mag. 20: 212, 1932.
- Papilio machaon**
 iClark, PUSNM 81(11), 1932, 15p.
- Papilio monuste**, *see* *Pieris monuste*
- Papilio philenor**
 Britton, Conn. B. 338: 595, 1932.
 Britton, Conn. B. 344: 105, 1933.
 Clark, P. Ent. Soc. Wash. 36: 263, '34.
 Saunders, N.Y. St. Mus. Hbk. 13: 234-235, 1932.
- Papilio polydamas**
 Bates, Ent. News 45: 166-167, 1934.
- Papilio polyxenes** (Black swallowtail)* (Celery worm)* (Parsley worm)*
 iDustan, Can. Dept. Agr. Ent. B. 32: 53, 1932.
 iGilbert & Popenoe, USDA FB 1371 rev.: 21, 1930.
 Goucher, N.S. Agr. R. f. 1930: 90.
 biHillemann, Ann. Ent. Soc. Amer. 26: 575-585, 1933.
 iMunro & Riddle, N.Dak. C. 42 rev.: 57-58, 1933.
 iWatson, Fla. B. 232: 49-50, 1931.
- Papilio polyxenes asterias**
 iSaunders, N.Y. St. Mus. Hbk. 13: 231-234, 1932.
- Papilio thoas** (Orange dog)*
 bBates, Fla. Ent. 17: 45, 1933.
- Papilio troilus**
 O'Byrne, Bklyn. Ent. Soc. B. 29: 73, 1934.
 iSaunders, N.Y. St. Mus. Hbk. 13: 222-224, 1932.
- Papilio turnus**
 iFry, Nature Mag. 19: 99, 1932.

- Papilio turnus** *Cont'd*
iSaunders, N.Y. St. Mus. Hbk. 13: 224-231, 1932.
- Papilionidae**
iBeard, Amer. Boys' Bk. Bugs: 147-159, 1932.
Martin & Ingham, So. Cal. Acad. Sci. B. 29: 115-133, 1930.
Saunders, N.Y. St. Mus. Hdbk. 13: 221-235, 1932.
- Parabacillus, P. coloradus, hesperus**
iHebard, Trans. Amer. Ent. Soc. 60: 284-294, 1934.
- Parabolocratus** spp.
nBall, Bklyn. Ent. Soc. 28: 223, 1933.
inShaw, J. Kans. Ent. Soc. 5: 38-52, '32.
- Parabombylius, P. vittatus**
nCurran, Amer. Mus. Nov. 404, 1930, 7p.
- Paraclocerinus marilandia**
Dozier, P. Ent. Soc. Wash. 35: 94-95, 1933.
- Paraclocoris** spp.
nKnight, Ann. Ent. Soc. Amer. 23: 810-827, 1930.
- Paracantha, P. forficula**
binBenjamin, USDA TB 401: 29-31, 1934.
- Paraceramius spiricornis**
Bequaert, J. N.Y. Ent. Soc. 39: 132, 1931.
- Paraclemensia acerifoliella** (Maple leaf cutter)*
bDeGryse, Sci. Agr. 14: 487-494, 1934.
- Paraclius** spp.
inVan Duzee, Amer. Mus. Nov. 483: 25-26, 1931; 484: 7-11, 1931; 599: 21-24, 1933.
nVan Duzee, BAMNH 61: 187-194, '31.
- Paracoelidia fusconeura**
nOman, J. Kans. Ent. Soc. 3: 78-79, '30.
- Paradoxodes epilachnae**
biFriend & Turner, Conn. B. 332: 92-93, 1931.
Marlatt, USDA Ent. R. f. 1931: 32.
J. Ec. Ent. 24: 114, 1931.
- Paradichlorobenzene**, *see* Fumigants—
Paradichlorobenzene, *also* under major pests, subhead, Paradichlorobenzene
- Paradidyma** spp., Key
nReinhard, PUSNM 83: 9-43, 1934.
- Paradros atinas**
iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 269-270, 1934.
- Parafesburia**
nTownsend, J. N.Y. Ent. Soc. 40: 446-447, 1932.
- Parafischeria venatoris**
Wilcox, Gray & Mote, Oreg. B. 296: 17, 1932.
- Paraherminia**
nRichards, Ent. News 43: 188, 1932.
- Parajalysus punctipes**
nVan Duzee, Cal. Acad. Sci. P. ser. 4, 21: 35-36, 1933.
- Parajapyxisabellae**
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 382, 1934.
- Paraleptophlebia**—Key
biGordon, Bklyn. Ent. Soc. B. 28: 116-130, 1933.
- Paraleptophlebia** spp.
nIde, Can. Ent. 62: 207-211, 1930.
inMcDunnough, Can. Ent. 64: 209-210, 1932; 65: 155, 1933.
nNeedham, Can. Ent. 64: 274-275, 1932.
nTraver, Elisha Mitchell Sci. Soc. J. 47: 113-116, 133-135, 1932.
- Paraleyrodes perseae** (Bay whitefly)
Watson & Berger, Fla. Ext. B. 67: 58, 1932.
- Paralimna luctans, piger, sera**
nCresson, Ent. News 44: 65-67, 1933.
- Paralimnastis zwaluwenbergi**
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 383, 1934.
- Paramblynotus**
Weld, P. Ent. Soc. Wash. 32: 137, 1930.
- Paranagrus optabilis**
biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 262-263, '31.
- Paraneotermes simplicicornis**
Light & Kofoid, Termites & Termite Control: 283-285, 1934.
- Paranura sexpunctata colorata**
inMills, Collembola of Iowa: 28, 1934.
- Paranysson**
Bequaert, Ent. News 44: 36-39, 1933.
- Paraphryno**
nTownsend, J. N.Y. Ent. Soc. 40: 469, '32.
- Paraprisca fragilis, grandis**
binCarpenter, Amer. Acad. Arts & Sci. P. 70: 125-128, 1933.

Parapsyche

in Betten, N.Y. St. Mus. B. 292: 181, '34.

Parasalius

nBanks, Amer. Acad. Arts & Sci. P. 69(1): 21, 1934.

Parasetigena segregata

Aldrich, P. Ent. Soc. Wash. 35: 165-166, 1933.

Parasite laboratory—Belleville, Ont.

Baird, Ent. Soc. Ont. R. 61: 65-68, '31.

Parasite zoo, see Farnham Royal Parasite Laboratory**Parasites**

bBalduf, Smithson. R. f. 1931: 433-435, 1932.

Clausen, Pac. Sci. Cong. 5, P. 5: 3525-3529, 1934.

Daviault, Nat. Can. 60: 179-180, 1933.

biDuncan, Cal. St. Teach. Coll. Insects: 50-54, 1932

Frison, Peoria Acad. of Sci. 1: 2-3, '33.

biHicks, Univ. Col. Studies 21: 265-271, 1934.

Howard, J. Ec. Ent. 24: 325-326, 1931.

Knowlton & Janes, Utah Acad. Sci. P. 8: 147-148, 1931.

Leefmans, Pac. Sci. Cong. 4, P. 4: 217-222, 562-568, 1930.

Marlatt, USDA Ent. R. f. 1932: 24-25.

Metcalf & Flint, Fund. of Ins. Life: 61-64, 1932.

Newcomer, USDA Off. Rec. 9(16): 7, 1930.

O'Kane, N.H. Agr. R. f. 1931/1932: 114-117.

Pemberton, Hawaiian Sugar Pl. Assoc. R. f. 1934: 19-26.

iPeña, La Hacienda 25: 74-75, 1930.

Rogers, Conn. Pom. Soc. P. 44: 26-27, 1934.

iSanderson, Ins. Pests Farm ed. 3: 29-33, 1931.

iSlawter, Pop. Sci. Month. 121(1): 44-45, 109-110, 1932.

Strickland, Sci. Month. 39: 252-264, 1934.

Swaine, Pac. Sci. Cong. 5, P. 5: 3390-3391, 1934.

Thomson, Cit. Ind. 12(5): 5, 28-29, 32, 1931.

iWeed, Insect Ways: 194-205, 1930.

Weir, Can. Min. of Agr. R. f. 1930/

1931: 136-137; R. f. 1931/1932: 176-178; R. f. 1933/1934: 62-63.

Parasites—Bats

Stiles & Nolan, Nat. Inst. Health B. 155: 603-742, 1931.

Parasites—Collecting

Dobroscky, J. N.Y. Ent. Soc. 42: 368-369, 1934.

Parasites—Domestic animals

Caler, J. Kans. Ent. Soc. 4: 77-98, '31.

iCameron, Can. Dept. Agr. B. 152, 1931, 22p.

Cary, Assoc. So. Agr. Workers P. 33: 57, 1932.

bCrane, N.Y. St. Vet. Coll. R. f. 1931/1932: 86-120, 1933.

Davis, Purdue Univ. B. 32(7): 39-41, 1932.

[Hall], Vet. Med. 26: 96-97, 1931.

iHall, Cornell Vet. 22: 297-304, 316-317, 1932.

iHall, USDA C. 338 rev., 1934, 34p.

Rebrassier, Ohio Wkly. P. B. 17(6), '32.

Robison, Ill. Dept. Agr. R. 15: 32-34, 1932.

Schwartz et al., USDA C. 148: 34-54, 1933.

Smith, Amer. Agr. 125: 290, 1930.

Van Volkenberg, P.R. (Mayaguez) R. f. 1931: 25-26, 1932.

iVan Volkenberg, P.R. (Mayaguez) B. 36: 21-26, 1934.

Parasites—Foxes

Kingscote, Ont. Vet. Coll. R. f. 1930: 41-45, 1931.

Sweebe, Vet. Med. 26: 193, 1931.

Parasites—Host-parasite balance

bPayne, Ecol. Monog. 4: 1-46, 1934.

Parasites—Intermediate hosts

Pepper & Driggers, Ann. Ent. Soc. Amer. 27: 593-598, 1934.

Parasites—Introduction

Berry, Rev. de Agr. Cuba 12(1): 24-27, 1930.

Bruner, Rev. de Agr. Cuba 11(12): 7-8, 1930.

Fullaway, Hawaiian For. & Agr. 27: 215-216, 1930.

Glendenning, B.C. Ent. Soc. P. 28: 29-32, 1931.

Holloway, Facts about Sugar 25: 745-746, 1930.

Parasites—Introduction *Cont'd*

Jones, Rev. de Agr. Cuba 12(1): 27-28, 1930.

iMcKee, Nat. Repub. 19(10): 16-17, 46, 1932.

Marlatt, USDA Ent. R. f. 1933: 30-31.

bSchaffner, Ann. Ent. Soc. Amer. 27: 585-592, 1934.

bSmith, Ann. Ent. Soc. Amer. 26: 518-528, 1933.

Strong, USDA Ent. R. f. 1934: 4.

Wolcott, Ec. Ent. of West Indies: 120-122, 1933.

Parasites—Liberation

J. Ec. Ent. 25: 1119, 1932.

Parasites—Longevity

bMason, J. Ec. Ent. 27: 895, 1934.

Parasites—Nematodes

iChristie, J. Parasit. 16: 250-256, 1930.

Parasites—Protozoa

Becker in Hegner & Andrews, Prob. & Meth. of Research in Protozool.: 248-256, 1930.

iElson, Amer. Nat. 67: 283-286, 1933.

biTravis, Iowa St. Col. J. Sci. 6: 321-323, 1932.

Parasites—Rearing

bBaker & Arbutnot, Ann. Ent. Soc. Amer. 26: 297-302, 1933.

biFlanders, Hilgardia 4: 465-501, 1930.

Garman, Conn. Pom. Soc. P. 44: 24-26, 1934.

bMason, J. Ec. Ent. 27: 895, 1934.

Swezey, J. Ec. Ent. 24: 945-947, 1931.

Parasites—Searching

iCompere, Cal. Cit. 15: 533, 562-568, 1930.

Flanders, Cit. Leaves 12(4): 15-16, 18, 1932.

Parasites—Shipping

biClark, USDA TB 455: 26-31, 1934.

Dowden, Ann. Ent. Soc. Amer. 27: 603, 1934.

biHolloway, J. Ec. Ent. 26: 280-282, '33.

Holloway, Haley & Bynum, Sugar B. 10(22): 5-7, 1932.

Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 197-199, 1930.

Jaynes, Grace Log 14: 108-109, 1931.

biLopez, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 50: 6-12 [P. Pt. 2], 1932.

Parasites of animals

Baker, Can. Field-Nat. 45: 189-191, 1931.

Buckell, B.C. Ent. Soc. P. 31: 10-16, 1934.

Faust, Sci. Month. 33: 228-234, 1931.

Ormsby, Pract. Treat. Dis. Skin ed. 4 rev.: 1045-1085, 1934.

Parasites of birds

Peters, Bird-Banding 1: 51-60, 1930; 4: 68-75, 1933.

Spencer, Sci. Agr. 13: 406, 1933.

Whitehead, J. Ec. Ent. 26: 292-293, 1933.

Parasites of man

iMetcalf, Ill. St. Acad. Sci. Trans. 23: 261-272, 1931.

Reed, Science n.s. 72: 619-620, 1930.

Parasitic Hymenoptera

iDozier, P. Ent. Soc. Wash. 35: 85-100, 1933.

bFullaway, Hawaiian Ent. Soc. P. 8: 111-120, 1932.

nRohwer, P. Ent. Soc. Wash. 36: 43-48, 1934.

Parasitology

Cort, Science n.s. 72: 458-459, 1930.

Hermes, J. Ec. Ent. 25: 222-232, 1932.

Parasol ant, *see* *Atta texana***Parasparatta panamae**

nHebard, Trans. Amer. Ent. Soc. 59: 106-108, 1933.

Parasphaeria ovata

bRehn, Trans. Amer. Ent. Soc. 59: 189-190, 1933.

Parasphen frontalis

nCresson, Trans. Amer. Ent. Soc. 56: 336-337, 1930.

Parasyntormon longicornis, petiolatum

inVan Duzee, Amer. Mus. Nov. 655: 4-6, 1933.

Parasyntormon utahnum

nVan Duzee, Pan-Pac. Ent. 9: 64-65, 1933.

Paratelopsilus canadensis

nWhittaker, P. Ent. Soc. Wash. 32: 73-74, 1930.

Paratenetus crinitus

Frost, Psyche 37: 176-177, 1930.

Paratenodera sinensis, *see* *Tenodera sinensis*

Paratetranychus bicolor

Hamilton, N.J. C. 334: 2, 1934.

Paratetranychus citri (Citrus red mite)*

Ebeling, Pan-Pac. Ent. 10: 89, 1934.

biLockwood, Cal. Agr. Mo. B. 22: 341, 1933.

iMitchel, Tex. Cit. 6(8): 9, 1930.

biQuayle, Cal. B. 542: 10-11, 1932.

biRohrbaugh, Plant Physiol. 9: 699, '34.

Ryan, Los Angeles Co. Comm. Agr. R. f. 1932: 12.

iVolck & Hunt, Cal. Spray-Chem. Corp. Res. B. July 1931: 15-16.

Watson & Berger, Fla. Ext. B. 67: 94, 1932.

Wilcomb, Cal. Cit. 15: 500, 1930.

Woglum, Cal. Fr. Grow. Exch. B. 11: 18-19, 1934.

Yothers & Mason, Fla. St. Hort. Soc. P. 44: 51-54, 1931.

Paratetranychus ilicis

Gardner, Mich. R. f. 1932: 30-31.

Hutson, Mich. Quar. B. 14: 191-193, 1932.

bHutson, J. Ec. Ent. 26: 425-430, 1933.

Loree, Mich. C. B. 152: 28-29, 1934.

Pettit, Mich. St. Bd. Agr. R. 69: 208-209, 1930.

Pettit, Mich. Ent. R. f. 1930: 6-7; R. f. 1931: 11-12.

†Paratetranychus pilosus (European red mite)*

iCaesar, Ont. B. 356: 56-57, 1930.

Cutright, Ohio B. 446: 83-84, 1930.

Essig, Hist. of Ent.: 85-86, 1931.

Garman, Conn. Pom. Soc. P. 44: 82-84, 1934.

Gilliat, Ent. Soc. Ont. R. 60: 8, 1930.

Haegle, Ida. St. Hort. Assoc. Conv. 38: 80, 1933.

Houser, Ohio Hort. Soc. P. 63: 123-125, 1930.

iHutson, Mich. Sp. B. 244: 14-16, 1933.

Kelsall, N.S. Fr. Grow. Assoc. R. 66: 60, 1930.

Kelsall & Hockey, N.S. Fr. Grow. Assoc. R. 67: 176-179, 1930.

McGregor, Cal. Agr. Mo. B. 19: 573, 1930.

Newcomer, Oreg. St. Hort. Soc. R. 22: 41-45, 1930; R. 23: 52-56, 1932.

iNewcomer, USDA C. 270: 15-19, 1933.

Petch, Que. Pom. & Fr. Grow. Soc. R. 36: 99, 1929.

iPettit & Hutson, Mich. C. B. 137: 37-38, 1931.

Pickett, N.S. Fr. Grow. Assoc. R. 70: 54-55, 1933.

Potter et al., N.H. Ext. B. 47: 41, 1934.

iQuaintance & Siegler, USDA FB 1270 rev.: 67-69, 1931; FB 1666: 64-66, 1931.

iRoss, Can. Dept. Agr. B. 129: 50, 1930.

Ross & Putman, Ent. Soc. Ont. R. 64: 36, 1933.

iSanderson, Ins. Pests Farm. ed. 3: 306-310, 1931.

Spuler, Wash. B. 245: 32, 1930.

Twinn, Ent. Soc. Ont. R. 65: 121, 1934.

Webster, Wash. St. Hort. Assoc. P. 27: 18-19, 1931.

Zappe, Conn. B. 315: 571-578, 1930.

Paratetranychus pilosus—Parasites

Gilliat, Ent. Soc. R. 61: 11, 1931.

Weir, Can. Min. Agr. R. f. 1930/1931: 140.

Paratetranychus pilosus—Quarantine

Ark. St. Pl. Bd. News July 15, 1931. 2p.

J. Ec. Ent. 24: 1116, 1931.

Paratetranychus pilosus citri

iClark, Tex. Cit. 9(4): 8, 13-14, 16, '32.

biClark, Tex. C. 67: 46-47, 1933.

Paratetranychus telarius

Dean, Kans. St. Hort. Soc. Bien. R. 42: 48-49, 1934.

Paratetranychus ununguis (Spruce mite)

Bailey, Cult. Conifers North Amer.: 348, 1933.

Felt, Nat. Shade Tree Conf. P. 8: 81, 1932.

Hamilton, N.J. C. 334: 2, 1934.

Hedrick, N.Y. (Gen.) R. 49: 66, 1930.

Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 15-16.

Twinn, Ent. Soc. Ont. R. 65: 123, 1934.

Paratetranychus yothersi (Avocado red mite)*

Hamilton, N.J. C. 334: 2, 1934.

McKenzie, Cal. Avocado Assoc. YB f. 1933: 35.

Palmer, Cal. Cult. 78: 34, 1932.

Quayle, Cal. Avocado Assoc. YB f. 1932: 39.

Cal. Avocado Assoc. YB f. 1931: 232.

Paratettix cucullatus

Call, Kans. Bien. R. 5: 96, 1930.

King & Slifer, Amer. Nat. 67: 80-81, 1933.

bNabours, P. Nat. Acad. Sci. 16: 350-353, 1930.

Nabours, Science n.s. 71: 373-375, '30.

Nabours, Kans. Bien. R. 6: 83-84, '32.

biRobertson, J. Morph. 50: 209-257, '30.

biRobertson, Genetics 16: 349-352, 1931.

Paratettix frey-gessneri

Hebard, Trans. Amer. Ent. Soc. 58: 226-227, 1932.

Paratettix minutus

Hebard, Trans. Amer. Ent. Soc. 58: 223-225, 1932.

Paratettix rugosus

Call, Kans. Bien. R. 5: 96, 1930.

King & Slifer, Amer. Nat. 67: 80-81, 1933.

Nabours, Science 71: 373-374, 1930.

Nabours, Kans. Bien. R. 6: 83-84, '32.

Nabours & Kingsley, Amer. Nat. 68: 167, 1934.

Paratettix rugosus—Chromosomes

biNabours & Robertson, P. Nat. Acad. Sci. 19: 234-239, 1933.

biRobertson, J. Morph. 50: 209-257, '30.

Paratettix texanus, see Paratettix cucullatus**Paratheresia claripalpis**

Holloway, Facts about Sugar 26: 304, 1931.

Jaynes, Assoc. South. Agr. Work. P. 31: 420, 1930.

bJaynes, J. Ec. Ent. 23: 676-680, 1930; 25: 65, 1932.

iJaynes, Grace Log 14: 108-109, 1931.

Jaynes, Facts about Sugar 27: 179, '32.

Jaynes, Sugar B. 10(13): 4-5; (18): 6-7, 1932.

iJaynes, USDA TB 363: 3-10, 1933.

bScaramuzza, Asoc. Tecn. Azucar. Cuba P. 7: 61, 1933.

iScaramuzza, Cuba Agr. 1(7): 16-17, 1934.

bScaramuzza, Rev. de Agr. Cuba 15(6): 13-17, 1934.

Paratricylea metallica, muscoidea

nCurran, Amer. Mus. Nov. 506: 5-6, '31.

Paratrioza cockerelli

Cardon, Utah B. 235: 58, 1932.

Daniels, Rocky Mt. Conf. Ent. R. 9: 18-19, 1932.

Daniels, Col.-Wyo. Acad. Sci. J. 1(5): 79, 1933.

biDaniels, Col. B. 410, 1934, 18p.

Klyver, Ent. News 43: 34, 1932.

Knowlton, Can. Ent. 65: 241-243, '33.

Knowlton, J. Ec. Ent. 26: 730, 977, '33.

bKnowlton, Utah Acad. Sci. P. 10: 153, 1933; 11: 261-265, 1934.

biKnowlton & Janes, Ann. Ent. Soc. Amer. 24: 283-291, 1931.

Knowlton & Thomas, J. Ec. Ent. 27: 547, 1934.

bLehman, J. N.Y. Ent. Soc. 38: 307-312, 1930.

List, Cal. Agr. Mo. B. 23: 237, 1934.

List, Col. B. 411, 1934, 14p.

List & Daniels, Science n.s. 79: 79, '34.

Pack, Utah B. 216: 21, 1930; B. 220: 42, 1930.

Sandsten, Col. R. 47: 18, 1934.

Paratrioza cockerelli—"Psyllid yellows"

biEyer & Crawford, J. Ec. Ent. 26: 846-850, 1933.

List, Col. R. 45: 44-45, 1932.

List & Daniels, Col.-Wyo. Acad. Sci. 1(6): 74-75, 1934.

List & Daniels, Science n.s. 79: 79, '34.

iMetzger, Col. B. 412: 82-87, 1934.

Richards, Phytopath. 21: 103, 1931.

Sandsten, Col. R. 46: 14, 1933.

Paratyloptropidia beutenmuelleri

iCaudell, P. Ent. Soc. Wash. 34: 86-87, 1932.

Sherman, P. Ent. Soc. Wash. 34: 85-86, 1932.

Paratyndaris mexicana

nFisher, PUSNM 82(27): 4-5, 1933.

Paratyndaris suturalis

nFall, Ent. News 45: 193-195, 1934.

Paravilla

nPainter, J. Kans. Ent. Soc. 6: 10-15, 1933.

Paraxiphopoeus, P. arebiensis

nGoding, J. N.Y. Ent. Soc. 38: 89, 1930.

Parcoblatta pennsylvanica (Forest cockroach)

biPark & Keller, Ecology 13: 335-337, '32.

Parectopa—Key

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 143, 1930.

Parepyris sylvanidis

Gahan, J. Wash. Acad. Sci. 21: 221, '31.

Pareuxoa

inForbes, Ent. Amer. n.s. 14: 27-28, '33.

Parharmonia pini (Pitch-mass borer)

Bailey, Cult. Conifers North Amer.: 344, 1933.

Felt, J. Ec. Ent. 26: 49, 1933.

Paria canella (Strawberry root worm)

Chambers & Thompson, Wis. Dept.

Agr. B. 24, 1931; B. 145: 38, 1933.

Compton, Ill. St. Nat. Hist. Surv. Ent.

Ser. C. 12: 80-82, 1930.

Crosby et al, N.Y. (C.) Ext. B. 306: 16, 1934.

iEssig, Hist. of Ent.: 165-168, 1931.

iLockwood, Cal. Agr. Mo. B. 18: 770, 1929.

iMcDaniel, Mich. Sp. B. 214: 94-95, 1931.

Paria canella quadrinotata

iSmith, Cal. B. 505: 27-32, 1931.

Paria canella quadrinotata gilvipes

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 43-44, 1931.

Parlatoria blanchardi (Parlatoria date scale)*

Boyden, Ariz. Comm. Agr. & Hort. R. 19/20: 27, 1929.

Boyden, Date Grow. Inst. R. 7: 16-19, 1930; R. 8: 12-14, 1931; R. 9: 12, 1932; R. 10: 10-11, 1933.

Essig, Hist. of Ent.: 145-148, 1931.

Fleury, Cal. Agr. Mo. B. 22: 527-528, 1933.

Jacobsen, Cal. Agr. Mo. B. 19: 808-809, 1930.

Mackie, Cal. Agr. Mo. B. 23: 398, 1934.

Skinner, Ariz. Comm. Agr. & Hort. R. 21-22: 44-50, 1931.

biStickney, USDA TB 421, 1934, 67p.

Strong, USDA PQCA R. f. 1931: 46-47.

Strong, USDA BPQ R. f. 1933: 29-30.

iAriz. Comm. Agr. & Hort. R. 21-22: 50, 1931.

Cal. Agr. Mo. B. 20: 197, 1931.

USDA YB f. 1933: 79.

Parlatoria blanchardi—Quarantine

Hyde, Cit. Ind. 13(12): 22, 1932.

Strong, USDA PQCA R. f. 1931: 46-47; R. f. 1932: 28-29; R. f. 1933: 29-30.

Parlatoria colianthina (European olive scale)

George, Cal. Agr. Mo. B. 23: 245, 1934.

Parlatoria date scale**, *see* **Parlatoria blanchardi*Parlatoria oleae**

Burgess, Ariz. R. 44: 41, 1933.

iMcConnell, J. Ec. Ent. 23: 142-144, 1930.

Parlatoria pergandei Comst. (Chaff scale)*

Amer. Agr. Chem. Co. Rev. de Agr.

Cuba 13(6): 51, 1931.

biClark, Tex. C. 67: 45-46, 1933.

English, Ala. Poly. R. 44: 27, 1933.

McDaniel, Mich. Sp. B. 214: 62, 1931.

iWatson, Tex. Cit. 9(2): 9, 1932.

Watson & Berger, Fla. Ext. B. 67: 28-30, 1932.

Parmenonta insularis

nFisher, Can. Ent. 62: 9-10, 1930.

Parnassius

Eisenhardt, Bklyn. Ent. Soc. B. 26: 39-44, 1931.

Krauth, Ent. News 42: 257, 1931.

Parnassius apollo

Holtz, J. N.Y. Ent. Soc. 38: 468, 1930.

Parnassius smintheus behrii

iComstock, So. Cal. Acad. Sci. B. 29: 135-136, 1930.

Paroedostethus, P. relictus

nVan Dyke, Cal. Acad. Sci. P. ser. 4: 20: 327-328, 1932.

Paroligoneurus, P. johnsoni

inMuesebeck, PUSNM 79(16): 8-9, 1931.

Paroxyna

biBenjamin, USDA TB 401: 40-42, 1934.

Paroxyna crockeri

inCurran, Cal. Acad. Sci. P. ser. 4: 21, 157, 1934.

Parsley worm**, *see* **Papilio polyxenes**Parsnip webworm**, *see* **Depressaria heracliana****Passalus cornutus** (Horned passalus)*

Miller, Ann. Ent. Soc. Amer. 25: 709-712, 1932.

Pasture insects

Knowlton, J. Ec. Ent. 27: 720, 1934.

Semple et al., USDA Misc. Pub. 194: 30-31, 1934.

iWolcott, Ec. Ent. of West Indies: 257-263, 1933.

Patanga pinchoti

nCaudell, PUSNM 80(21): 6-7, 1932.

Patchia obscura

in Tissot, Fla. Ent. 16: 21-22, 1932.

Patchia winforii

in Miller, Can. Ent. 65: 183-184, 1933.

Patillalia

nCurran, Fam. & Genera of North Amer
Diptera: 469, 1934.

Patrobus longicornis

biPark & Keller, Ecology 13: 337-339,
1932.

Pauridia peregrina

Essig, Hist. of Ent.: 361-362, 1931.
Swezey, Hawaiian Ent. Soc. P. 8: 227,
1933.

Paurocephala fremontiae

in Klyver, Can. Ent. 62: 174-175, 1930;
63: 111-112, 1931.

Paupopoda

bHilton, Ann. Ent. Soc. Amer. 23: 765-
781, 1930.
Hilton, Can. Ent. 63: 280-284, 1931.
Hilton, Science n.s. 74: 338, 1931.

Pavement ant, see Tetramorium caespitum*Pawpaw insects**

La Hacienda 25: 211, 1930.

Pea aphid, see Illinoia pisi*Pea insects**

iCaesar, Ont. Dept. Agr. B. 359: 55-56,
1931.

Clark, Tex. R. 47: 238, 1934.

Gilbert & Popenoe, USDA FB 1371
rev.: 30, 1934.

Jenkins, Oreg. St. Hort. Soc. R. 24: 49-
51, 1932.

Langford, Peninsula Hort. Soc. Trans.
f. 1931: 74-75.

bLarson & Hinman, J. Ec. Ent. 25: 971-
976, 1932.

biMex. Agr. & Fomento. Principales
Plagas: 87-88, 1930.

Schoth, Oreg. B. 286: 22, 1931.

Wilkinson, Conn. (Storrs) Ext. B. 196:
26-27, 1933.

Pea moth, see Laspeyresia nigricana**Pea weevil, see Bruchus pisorum****Peach beetle, see Cotinis texana*****Peach borer, see Conopia exitiosa****Peach curculio, see Conotrachelus nenu-
phar****†Peach insects**

iAlden, Ga. St. Bd. Ent. B. 71, 1930,
31p.

Alden, Ga. St. Ent. B. 77: 17, 22-23,
1933.

Brooks & McDowell, Tex. C. 70: 20-21,
1934.

Butler, Tenn. St. Hort. Soc. P. 26: 42-
46, 1931; P. 28: 64-68, 1932.

Caesar, Ont. B. 356: 62-70, 1930.

iDietz, N.Y. (St.) Inst. Appl'd Agr.
L. I. Control. pests of tree fruits:
20-21, 1929.

Eddy & Hillenmeyer, Ky. St. Hort.
Soc. Trans. 79: 161-164, 1934.

iEssig & Hoskins, Cal. Ext. C. 87: 67-
70, 1934.

Fisher, Can. Hort. Fr. & Truck ed. 53:
36, 1930.

iFleming, et al. USDA C. 317: 6, 1934.

Gardner, Ind. Ext. B. 176: 2-12, 1931.

iGarman, Conn. B. 349: 453-454, 1933.
Hodgkiss, Penn. St. Hort. Assoc. P. 74:
38, 1933.

Hood, USDA C. 235, 1932, 12p.

Hurt, Va. St. Hort. Soc. P. 36: 94-104,
1931.

iHutchison, Cal. R. f. 1932/1934: 70-71.

biMcConnell, Md. B. 364: 411-456, 1934.

Marlatt, USDA Ent. R. f. 1930: 11-15;
R. f. 1932: 3; R. f. 1933: 5-7.

iParrott, J. Ec. Ent. 25: 255-360, 1932.

Peck, N.Y. (C.) Ext. B. 208: 25-28, '31.
Quaintance & Siegler, USDA FB 1666:
76-80, 1931.

Ross & Putman, Ent. Soc. Ont. R. 64:
36-41, 1933.

Sauchelli, Tenn. St. Hort. Soc. P. 28:
37, 1932.

Snapp, USDA FB 1557, rev. 1931, 42p.

Stearns, Peninsula Hort. Soc. Trans.
44: 115-126, 1930.

Strong, USDA Ent. R. f. 1934: 17.

bWymore, J. Ec. Ent. 27: 886, 1934.

**Peach leaf silver mite, see Phyllocoptes
cornutus****Peach plant bug, see Lygus spp.****Peach thrips, see Frankliniella tritici*****Peach twig borer, see Anarsia lineatella****Peach tree borer, see Conopia exitiosa****Peanut insects (Bagged peanuts)**

Marlatt, USDA Ent. R. f. 1932: 29.

Pear bud mite, *see* *Eriophyes pyri*

Pear insects

bBailey, J. Ec. Ent. 27: 879-884, 1934.
Barss & Mote, Oreg. Ext. B. 431: 6-11, 1931.

Cacasar, Ont. B. 356: 48-53, 1930.

Crosby, N.Y. St. Hort. Soc. P. 77: 12-13, 1932.

Dietz, N.Y. (St.) Inst. Appl'd Agr. L.I. Control. pests of tree fruits: 24-25, 1929.

Drew, Conn. Pom. Soc. P. 43: 31-32, 1933.

iEssig & Hoskins, Cal. Ext. C. 87: 70-73, 1934.

iGlasgow, N.Y. (Gen.) B. 648, 1934, 31p.

Gomez, Rev. Unidas 47(7): 35-36, '31.

Hedrick, N.Y. (Gen.) R. 49: 63-64, 1930; R. 50: 56-59, 1931; R. 51: 55-58, 1932; R. 53: 47-48, 1934.

Karr, Wash. St. Hort. Soc. P. 28: 67-68, 1932.

Mundinger & Chapman, J. Ec. Ent. 25: 655-658, 1932.

Pettit & Hutson, Mich. C. B. 137, 1931, 63p.

iQuaintance & Siegler, USDA FB 1666: 73-75, 1931.

biRose et al, USDA Misc. Pub. 168: 54, 1933.

Webster & Spuler, J. Ec. Ent. 24: 960-971, 1931.

*Pear-leaf blister mite, *see* *Eriophyes pyri*

*Pear midge, *see* *Contarinia pyrivora*

*Pear plant bug, *see* *Lygus communis*

*Pear psylla, *see* *Psylla pyricola* (Foerst.)

*Pear slug, *see* *Eriocampoides limacina*

*Pear thrips, *see* *Taeniothrips inconsequens* (Uzel)

Pearl crescent, *see* *Phyiodes tharos*

Pearly eye, *see* *Enodia portlandia*

*Pecan budmoth, *see* *Gretchena bolliana*

*Pecan carpenter worm, *see* *Cossula magnifica* (Stkr.)

*Pecan cigar casebearer, *see* *Coleophora caryaeifoliella* Clem.

Pecan insects

biAdair, USDA C. 234, 1932, 15p.

Baker, Nat. Pecan Grow. Assoc. P. 30: 44-51, 1931.

Bilsing, Tex. Pecan Grow. Assoc. P. 12: 34-37, 1932.

Bilsing, Tex. R. 47: 49, 1934.

iBurkett, Tex. Dept. Agr. B. 111: 192-213, 1932.

Engelhardt, J. Ec. Ent. 25: 293-294, 1932.

Gill, Ga. St. Ent. B. 77: 39, 44-45, '33.

Gladney, Amer. Nut. J. 31: 53, 1929.

Harned, Miss. R. 42: 14-15, 1929; R. 43: 18-19, 1930; R. 44: 32-33, 1931.

Kislanko, Nat. Pecan Grow. Assoc. P. 29: 50-52, 1930.

Lyle, Miss. R. 45: 29-30, 1932.

Moznette, Ga. Fla. Pecan Grow. Assoc. P. 24: 28-34, 1930.

Moznette, Amer. Nut. J. 35: 33, 1931.

Moznette et al, USDA FB 1654: 1931, 59p.

Nickels, Pecan Grow. 1(6): 3, 8, 1933.

Nickels, Tex. Pecan Grow. Assoc. P. 13: 66-68, 1933.

Stuckey, Ga. R. 46: 38, 1934.

Traub, Mo. St. Hort. Soc. P. f. 1930-32: 139.

Walker, Nat. Pecan Grow. Assoc. P. 32: 12-14, 1933.

Watson, Fla. R. f. 1934: 54.

*Pecan leaf casebearer, *see* *Acrobasis juglandis* (LeB.)

*Pecan nut casebearer, *see* *Acrobasis caryae* Grote

*Pecan phylloxera, *see* *Phylloxera devastatrix* Perg.

Pecan shuckworm, *see* *Laspeyresia caryana*

Pecan tree borer, *see* *Conopia scitula*

*Pecan weevil, *see* *Curculio caryae* (Horn)

Peck's skipper, *see* *Polites peckius*

Pectinapyga, P. texana

niOsborn, Ann. Ent. Soc. Amer. 23: 697-698, 1930.

†Pectinophora gossypiella (Saund.) (Pink bollworm)*

Baker, Virgin Isl. R. f. 1930: 13-15, '31.

iBeard, Amer. Boys' Bk. Bugs: 320-324, 1932.

Bentley, Tenn. Bien. R. 1929/1930: 110, 1931.

Berley, S.C. C. 43: 23, 1930.

Chapman, Tex. R. 47: 46-47, 1934.

iChapman & Cavitt, J. Ec. Ent. 27: 820-827, 1934.

Pectinophora gossypiella Cont'd

- Colon, P.R. Dept. Agr. & Comm. Inf. An. Span. ed. f. 1931/1932: 38, 99, 104.
- Del Curto, Tex. Comm. Agr. R. 24: 43-46, 1932.
- Dominguez, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1932/1933: 148-149.
- Fenton & Owen, Tex. R. 43: 34-38, 1930; R. 44: 34-36, 1931; R. 45: 34-37, 1932; R. 46: 44-47, 1933.
- iFenton & Owen, J. Ec. Ent. 24: 1197-1207, 1931.
- Fleury, Cal. Agr. Mo. B. 19: 65-66, 825-826, 1930.
- iFolsom, USDA FB 1688: 11-14, 1932.
- Fracker, P. Ent. Soc. Wash. 36: 26, '34.
- George, Ariz. Com. Agr. & Hort. R. 19-20: 57-59, 1929.
- Hawkins, USDA YB f. 1934: 289-290.
- Hecke, Cal. Agr. Mo. B. 19: 181, 1930.
- Hyde, USDA YB f. 1931: 56.
- Isler & Fenton, J. Ec. Ent. 24: 795-807, 1931.
- Jacobsen, Cal. Agr. Mo. B. 18: 735-736, 1929; B. 19: 800-801, 1930.
- King & Loomis, USDA C. 206: 12, '32.
- Leonard, Rev. Agr. P.R. 25: 136, 1930.
- bLeonard, P.R. Dept. Agr. J. 16: 65-72, 129, 1932.
- iLoftin, Virgin Isl. R. f. 1931: 19-20, '32.
- iLongan, Cal. Agr. Mo. B. 20: 276-278, 1931.
- McDonald, J. Ec. Ent. 24: 790-795, 1931.
- McDonald, So. Agr. Workers Assoc. P. 32: 219, 1931.
- McDonald, Cal. Dept. Agr. Sp. Pub. 115: 121-122, 1932.
- McDonald, USDA YB f. 1934: 282-285.
- Mackie, Cal. Agr. Mo. B. 19: 839-841, 1930.
- Marlatt, USDA Ent. R. f. 1930: 38-39; R. f. 1931: 48-49; R. f. 1932: 20-21; R. f. 1933: 27-28.
- biMex. Agr. & Fomento. Principales Plagas: 141-142, 1930.
- Newell, Fla. St. Pl. Bd. Bien. R. 9: 20-21, 1933; R. 10: 27-28, 1934.
- O'Dell, Ariz. Comm. Agr. & Hort. R. 21-22: 91, 1931.
- Olmedo, Cal. Dept. Agr. Sp. Pub. 115: 125, 1932.
- O'Neill, USDA Off. Rec. 9(28): 7, 1930.
- Owen & Calhoun, J. Ec. Ent. 25: 746-751, 1932.
- Rivas, Cal. Agr. Mo. B. 23: 239, 1934.
- Rodriguez, Rev. Agr. P.R. 26: 174, 176, 1931.
- iRodriguez, P.R. Ins. C. 102: 23-27, '33.
- Rude, J. Ec. Ent. 25: 751-759, 1932.
- Rude & Smith, J. Ec. Ent. 25: 772-776, 1932.
- iSanderson, Ins. Pests Farm, ed. 3: 271-272, 1931.
- iSmith, Cal. Agr. Mo. B. 19: 279-281, 1930.
- Strong, USDA PQCA R. f. 1930: 30-34; R. f. 1931: 33-39; R. f. 1933: 16-22.
- Torres, Rev. Agr. P.R. 26: 175-176, 1931.
- Velazco, Rev. Agr. P.R. 26: 138, 145-146, 1931.
- iWhite, Cal. Agr. Mo. B. 20: 363-370, 1931.
- Wolcott, J. Ec. Ent. 24: 134, 1931.
- bWolcott, P.R. Dept. Agr. J. 15: 395-398, 1931.
- biWolcott, Ec. Ent. of West Indies: 298-306, 1933.
- iWolcott & Sein, P.R. Ins. C. 95, 1931, 13p.
- Yeomans, Ga. St. Ent. B. 77: 9-10, '33.
- Pectinophora gossypiella*—Mechanical detector
- iMackie, Cal. Cult. 76: 27, 43, 1931.
- Cal. Cult. 76: 11, 1931.
- Pectinophora gossypiella*—Parasites
- Peters, J. Ec. Ent. 23: 653, 1930.
- Willard, Pac. Sci. Cong. 4, P. 4: 137-138, 1930.
- Pectinophora gossypiella*—Quarantine
- Berly, S.C. C. 43: 15, 1930.
- Case & Mayes, Missouri St. Bd. Agr. B. 28(2): 16, 1930.
- Dunlap, USDA PQCA Q 52: 6, 1930.
- Hoyt, USDA BPQ R. f. 1934: 20-27.
- Hyde, USDA Off. Rec. 9(48): 2, 1930; 11: 32, 1932.
- Hyde, USDA YB f. 1933: 79.

- Marvin, USDA BPQ Q 52: 2-3, 1932.
 Ramos, P.R. Dept. Agr. & Comm. Inf.
 An. Span. ed. f. 1933/1934: 217-218.
 Strong, USDA PQCA R. f. 1930: 30-39; R. f. 1931: 33-42.
 Strong, USDA PQCA SRA 108: 116-119, 1931.
 Strong, USDA BPQ Q 52, 1932, 4p.
 Strong, USDA BPQ SRA 112: 88, 1932.
 Strong, USDA PQCA R. f. 1932: 16-22.
 Strong, USDA BPQ R. f. 1933: 16-22.
 Sullivan, Mo. St. Bd. Agr. B. 28 (2): 16, 1930.
 J. Ec. Ent. 25: 741, 1932.
 USDA BEPQ Q 62: 1934, 3p.
 USDA Off. Rec. 11: 225, 1932.
 USDA YB f. 1933: 79-80.
- Pectinophora gossypiella**—Quarantine and roller equipment
 Hyde, USDA Off. Rec. 11: 140, 1932.
- Pectinophora gossypiella**—X-ray detection
 iFenton & Waite, J. Agr. Res. 45: 347-348, 1932.
- Pectinophora gossypiella** and Compensation Claim Board
 Strong, USDA BPQ R. f. 1933: 19-20.
- Pedicella**
 Aldrich, P. Ent. Soc. Wash. 35: 165, 1933.
- Pedicinus** 502-526, *ancoratus* 516-518, *pictus* 518-521
 in Ferris, Stanford, Univ. Pub. Univ. Ser. Biol. Sci. 2: 1934.
- Pediculidae**
 Bequaert, Carnegie Inst. Wash. Pub. 431: 373, 1933.
 iOrmsby, Pract. Treat. Dis. Skin ed. 4, rev.: 1046-1048, 1934.
- Pediculoides** sp.
 Walker, Fla. R. 45: 75, 1931.
- Pediculoides ventricosus** Newp. (Straw itch mite)*
 Boyce, Hilgardia 8: 492, 1934.
 Brown, USDA C. 176: 15-16, 1931.
 biMatheson, Med. Ent.: 82, 1932.
 Ormsby, Pract. Treat. Dis. Skin ed. 4, rev.: 1054-1057, 1934.
 biRiley & Johannsen, Med. Ent.: 46-49, 1932.
 Simmons & Ellington, USDA TB 351: 31, 1933.
- Pediculopsis graminum**
 iMcDaniel, Mich. Sp. B. 214: 36, 1931.
 Regan, Wash. St. Hort. Assoc. P. 25: 132-133, 1929.
- Pediculus**
 Ferris, Ent. News 45: 86-88, 1934.
 Ewing, P. Wash. Biol. Soc. 46: 167-174, 1933.
- Pediculus (Parapediculus) atelophilus**
 Dunn, Psyche 41: 179-180, 1934.
- Pediculus humanus americanus**—Monkeys
 Ewing, Helminth. Soc. Wash. P. 1: 21, 1934.
- Pediculus humanus corporis** Deg. (Body louse)*
 Caler, J. Kans. Ent. Soc. 4: 95, 1931.
 Cecil, Text-book of Med. ed. 3: 513, '34.
 iDoane, Common Pests: 72, 1931.
 iHerrick & Griswold, N.Y. (C.) Ext. B. 202, rev.: 51-52, 1934.
 iLillingston, Hygeia 12: 915-918, 992-994, 1934.
 biMatheson, Med. Ent.: 150-155, 1932.
 Mooser & Dummer, J. Infectious Dis. 46: 170-172, 1930.
 Mex. Agr. & Fomento. Principales Plagas: 241-242, 1930.
 iOrmsby, Pract. Treat. Dis. Skin ed. 4, rev.: 1049-1051, 1934.
 biRiley & Johannsen, Med. Ent.: 126-132, 1932.
 Southern Lumberm. 144(1813): 21, '31.
- Pediculus humanus corporis**—Relapsing fever
 Strong & Shattuck, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 362, 1930.
 Hamilton, N.C. Health B. 45(4): 29-31, 1930.
- Pediculus humanus corporis**—Yellow fever
 bMatheson, Med. Ent.: 160-161, 1932.
- Pediculus humanus humanus** L. (Head louse)*
 iOrmsby, Pract. Treat. Dis. Skin ed. 4, rev.: 1048, 1934.
 Parman, J. Ec. Ent. 24: 559, 1931.
 Riley & Johannsen, Med. Ent.: 138-142, 1932.
- Pediculus pubis**
 Ormsby, Pract. Treat. Dis. Skin ed. 4, rev.: 1048, 1934.

- Pediculus (Paenipediculus) simiae**
 nEwing, P. Biol. Soc. Wash. 45: 117-118, 1932.
- Pediculus sp. killed by human blood meal**
 Sci. News Letter 21: 103, 1932.
- Pediculus vespertilionis**
 Collins, Nat. Inst. Health B. 155: 747-755, 1931.
- Pediculus vestimenti**, *see* **Pediculus humanus corporis**
- Pedilus monticola and Meloe montanus**
 Leech, Bklyn. Ent. Soc. B. 29: 41, 1934.
- Pedinaspis alternata**
 nBanks, Bklyn. Ent. Soc. B. 26: 132, 133, 1931.
- Pedinaspis nigriceps**
 nBanks, Psyche 40: 2, 1933.
- Pediodyctes tinkhami**
 inHebard, Trans. Amer. Ent. Soc. 60: 35-38, 1934.
- Pegomya hyoscyami** Panz. (Spinach leaf miner)*
 iBritton, Conn. B. 344: 161, 1933.
 iCaesar, Ont. Dept. Agr. B. 359: 25-27, 1931.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206, rev.: 43-44, 1933; B. 278: 36-37, 1934.
 iDustan, Can. Dept. Agr. Ent. B. 32: 39, 1932.
 Twinn, Que. Soc. Prot. Pl. R. 23/24: 154, 1932.
- Pegomya rubivora** (Coq.) (Raspberry cane maggot)*
 Baker, Wash. St. Hort. Soc. P. 26: 209, 1930.
 Britton, Conn. B. 344: 154, 1933.
 Houser, Ohio B. 454: 74-75, 1930.
 Jones & Hanson, Wash. Ext. B. 180: 5, 1933.
 Sanderson, Ins. Pests Farm, ed. 3: 451-452, 1931.
- Pegomya vicina**
 Watson, Fla. B. 232: 32-33, 1931.
- Pelamia repanda**
 Jones, Tex. R. 47: 53, 1934.
- Pelastoneurus spp.**
 nVan Duzee, Can. Ent. 62: 85-86, 1930.
 nVan Duzee, Pan. Pac. Ent. 6: 123-124, 1930.
 inVan Duzee, Amer. Mus. Nov. 484: 11-14, 26, 1931.
- nVan Duzee, BAMNH 61: 197-200, 1931.
- inVan Duzee, Amer. Mus. Nov. 599: 25-27, 1933.
- Pelecinius polyturator**
 Robinson, Ent. News, 45: 20, 1934.
- Pelecypoda**
 Brooks, Carnegie Mus. Ann. 20: 171-177, 1931.
- Pelidnota punctata**
 iSim, USDA C. 334: 5, 1934.
- Pelina canadensis** 208-209, *compar* 207-208, *pentheri* 209-210
 nCresson, Trans. Amer. Ent. Soc. 60: 1934.
- Pelinoides uncta**
 nCresson, Trans. Amer. Ent. Soc. 60: 210-211, 1934.
- Pelitropis rotulata**
 biMetcalfe & Bruner, Psyche 37: 399-400, 1930.
- Pellucid locust**, *see* **Camnula pellucida**
- Pelmatosilpha macu, miranha**
 inTrans. Amer. Ent. Soc. 56: 39-42, 1930.
- Pelosoma mesosternalum**
 inHinton & Ancona, Mex. Univ. Nac. Inst. Biol. Anal. 5: 246-247, 1934.
- Peltaphis**
 nFrison & Ross, Can. Ent. 65: 152-154, 1933.
- Pelodytes lengi, sexmaculatus**
 biHickman, Mich. Acad. Sci. Pap. 11: 400-408, 1930.
- Peltoperla**
 biClaassen, Plecoptera Nymphs of America: 38-40, 1931.
- Pemphigini—Key**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 216, 1934.
- Pemphigus—Key**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 221, 1934.
- Pemphigus betae** (Sugar-beet root aphid)*
 Dustan, Can. Dept. Agr. Ent. B. 32: 38, 1932.
 iKnowlton, Utah Leaf. 41, 1934, 3p.
 Seamans, Ent. Soc. Ont. R. 60: 31, 1930.
- Pemphigus ephemeratus**
 nHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 365-366, 1931.

- Pemphigus juncti-sensoriatus**
inMaxson, Ann. Ent. Soc. Amer. 27: 34-36, 1934.
- Pemphigus lactucae**
McDaniel, Mich. Sp. B. 214: 54, 1931.
- Pemphigus monophagus, nortonii**
inMaxson, Ann. Ent. Soc. Amer. 27: 36-38, 1934.
- Pemphigus populitransversus**
Manson, Can. Ent. 63: 171-172, 1931.
Roney, Tex. R. 43: 41, 1930.
Roney, Tex. R. 44: 39-40, 1931.
- Pemphigus tartareus**
inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 369-370, 1931.
- Pemphigus tessellatus**
Cory, Md. Ext. News 19(3): 4, 1934.
- Pemphredon bipartior**
Rau, Can. Ent. 66: 259, 1934.
- Pemphredon lugubris (Mournful wasp)**
iStep, Bcs, Wasps, Ants: 76-80, 1932.
- Penehuleria, P. acuticephala**
nBeamer, Pan-Pac. Ent. 10: 43, 1934.
- Penestirellus, P. catalinus**
nBeamer & Tuthill, J. Kans. Ent. Soc. 7: 21-22, 1934.
- Penisetia marginata**
Bourne, Mass. Ext. Lcaf. 48: 14, 1933.
Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 242, 1932.
Amer. Agr. 128: 68, 1931.
- Pentacora ligaga—Abdomen**
biSnodgrass, Smithson. Misc. Coll. 89(8): 81-84, 1933.
- Pentagonica divisa, nigricornis**
nDarlington, Psyche 41: 121-122, 1934.
- Pentalonia nigronervosa and plant diseases**
biKunkel, Que. Soc. Prot. Pl. R. 25/26: 29, 1934.
biOcfemia, Amer. J. Bot. 17: 1-18, 1930.
- Pentanodes albofasciatus**
nFisher, PUSNM 80(22): 64-65, 1932.
- Pentatomidae**
biBaker, Can. J. Res. 4: 148-220, 1931.
iBarber & Bruner, P.R. Dept. Agr. J. 16: 231-284, 1932.
Norland, J. Ent. & Zool. 23: 45-46, '31.
Watson, Cit. Ind. 12(11): 23, 1931.
Woodbury, Pan-Pac. Ent. 7: 124-125, 1931.
- Pentatominae—Cuba—Key**
Barber & Bruner, P.R. Dept. Agr. J. 16: 246-249, 1932.
- Penthe pimelia**
biBrubaker, Ohio J. Sci. 34: 46-56, 1934.
- Pentomacrus punctatus**
nFisher, PUSNM 80(22): 55-56, 1932.
- Peony insects**
Beal, N.Y. (C.) Ext. B. 220: 27-28, '32.
- Pepper insects**
biElmore, Davis & Campbell, USDA TB 447, 1934, 27p.
Watson, Fla. Ent. 18: 23, 1934.
Wilkinson, Conn. (Storrs) Ext. B. 196: 27-28, 1933.
- Pepper maggot fly, see Spilographa electa**
*Pepper weevil, see Anthonomus eugenii
*Peppergrass beetle, see Galeruca externa
- Pepsis**
Salman, Pan-Pac. Ent. 9: 9-10, 1933.
- Pepsis chrysothemis, cinnabarina**
McKenzie, Pan-Pac. Ent. 9: 159, 1933.
- Pepsis formosa**
iAnnixter, Better Homes & Gard. 12(10): 24-25, 62-63, 1934.
Morris, Nature Mag. 21: 34, 1932.
- Pepsis hirsuta**
nSalman, Pan-Pac. Ent. 9: 9-10, 1933.
- Pepsis nephele**
Bromley, Bklyn. Ent. Soc. B. 28: 192, 1933.
- Perdita ainsliei, gerardiae**
nCrawford, P. Ent. Soc. Wash. 34: 74-76, 1932.
- Perdita subtristis**
nCockerell, Can. Ent. 65: 234-235, 1933.
- Peregrinus maidis (Corn lantern-fly)**
Milord, Rev. de Agr. Cuba 12(4): 36, 1930.
Watson, Fla. B. 232: 53, 1931.
- Perforadix sacchari (Sugar cane root caterpillar)**
Holloway, Facts about Sugar 26: 447, 1931.
nSein, P.R. Dept. Agr. J. 14: 167-189, 1930.
Wolcott, J. Ec. Ent. 24: 144, 1931.
- Peribalus limbolarius—Male genitalia**
biBaker, Can. J. Res. 4: 184, 1931.
- Pericallimya bequaerti**
nCurran, Amer. Mus. Nov. 506: 4-5, '31.

- Pericoma carolina*
nBanks, Bklyn. Ent. Soc. B. 26: 228, '31.
- Peridesmia phytonomi*
bFlanders, Ann. Ent. Soc. Amer. 28: 438-444, 1934.
- Peridroma margaritosa*, *see* *Lycophotia margaritosa*
- Peridroma polymorpha*
inForbes, Ent. Amer. n.s. 14: 25-26, '33.
- Perigaster*, *P. longirostris*
iBuchanan, J. Wash. Acad. Sci. 21: 320-325.
- Perigia sutor*
Stoner & Wisecup, J. Ec. Ent. 23: 644-645, 1930.
- Perigona microps, picea*
nDarlington, Psyche 41: 98-100, 1934.
- Perileptus* (s.s.) *columbus, jeanneli*
inDarlington, Psyche 41: 86-88, 1934.
- Perilitus* sp.
Peterson, USDA Off. Rec. 11: 209, '32.
- Perillus bioculatus*
Baker, Can. J. Res. 4: 205, 1931.
- Perillus circumcinctus*
biBaker, Can. J. Res. 4: 206, 1931.
- Perimede purpureus*
inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 358, 1931.
inForbes, P.R. Dept. Agr. J. 15: 358, '31.
- Perimegatomia cylindrica*
Hopping, Can. Ent. 64: 173, 1932.
- Perimeles stollmeyer*
inBell, J. N.Y. Ent. Soc. 39: 524-525, '31.
- Periodical cicada*, *see* *Magicicada septendecim* (L.)
- Periphyllus brevispinosus*
inGillette & Palmer, Ann. Ent. Soc. Amer. 23: 546-547, 1930; 24: 921-922, 1931.
Miller, Can. Ent. 65: 4-5, 1933.
- Periphyllus macrostachyae*
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 922-923, 1931.
- Periphyllus negundinis* (Thos.) (Boxelder aphid)*
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 923-924, 1931.
iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 170-172, 1931.
- Periphyllus populicola*
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 924-925, 1931.
- Miller, Can. Ent. 65: 4, 1933.
- Periphyllus populifoliae*
Miller, Can. Ent. 65: 3, 1933.
- Periphyllus pyropictus*
Hamilton & Gemmell, J. Ec. Ent. 27: 448, 1934.
- Periphyllus salicicorticis*
Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 925-926, 1931.
- Periphyllus testudinatus*
Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 920-921, 1931.
- Periplaneta americana* (L.) (American cockroach)*
Buckell, B.C. Ent. Soc. P. 27: 28-29, 1930.
biGlaser, J. Exp. Med. 51(1): 59-82, '30.
Hamilton, N.J. R. 52: 226-227, 1931.
iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 20-21, 1934.
bHockenyos, J. Ec. Ent. 26: 1162-1169, 1933.
biLevene & Richardson, J. Ec. Ent. 27: 1170-1175, 1934.
McDaniel, Mich. Sp. B. 214: 41, 1931.
iO'Kane et al, N.H. TB 54, 1933, 23P.
Pemberton, Hawaiian Ent. Soc. P. 8: 509, 1934.
iStiner, Food Indus. 6: 216-217, 242, 1934.
Twinn, Ent. Soc. Ont. R. 65: 128, 1934.
- Periplaneta australasiae* (F.) (Australian cockroach)*
Herrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 20-21, 1934.
Hiestand, Ind. Acad. Sci. P. 40: 345, 1931.
- Periplaneta brunnea*
bRehn, P. Acad. Nat. Sci. Phila. 85: 41, 1933.
- Periplaneta fuliginosa*
bTauber, J. Morph. 56: 51-58, 1934.
biYeager, Ann. Ent. Soc. Amer. 24: 739-745, 1931.
bYeager & Tauber, Ann. Ent. Soc. Amer. 25: 315-327, 1932.

- Periplaneta ignota**
Swezey, Hawaiian Ent. Soc. P. 7: 361, 1931.
- Periplaneta orientalis**, *see* **Blatta orientalis**
- Peripocus madescens** 366-368, **madidus** 368-372, **quadrifasciatus** 372-376, **stagnivagus** 376-377.
in Chapman, J. N.Y. Ent. Soc. 38: 1930.
- Perischus, P. boliviensis**
nMalloch, P. Ent. Soc. Wash. 33: 225-227, 1931.
- Perisierola angulata**
Garman, Conn. Pom. Soc. P. 44: 24-26, 1934.
nMuesebeck, P. Ent. Soc. Wash. 35: 53-54, 1933.
- Perisierola sp.**
Neiswander & Vogel, Ohio St. Hort. Soc. P. 66: 157, 1933.
Nickels, Nat. Pecan Grow. Assoc. P. 30: 59, 1931.
- Perissoneura, P. diversipennis**
nMalloch, Bernice P. Bishop Mus. B. 98: 207-208, 1932.
- Perisothrips halli**
in Faure, Bklyn. Ent. Soc. B. 28: 5-7, '33.
- Peritelinus—Larvae**
Keifer, Ent. Amer. n.s. 13: 67-68, 1932.
- Perithemis—Key**
Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 31-32, 1932.
- Perkinsiella saccharicida** Kirk. (Sugar cane leafhopper)*
bLeonard, Rev. Agr. P. R. 25: 63, 1930.
Pemberton, Facts about Sugar 27: 484, 1932.
Pemberton, Hawaiian Sugar Pl. Assoc. P. 53: 15, 1934.
Swezey, Mid-Pac. Mag. 42: 325-326, 1931.
Swezey & Pemberton, Hawaiian Sugar Pl. Assoc. P. 51: 579-580, 1932.
Swezey & Williams, Pan-Pac. Res. Inst. J. 6(3): 2, 1931.
biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 120-127, 1931.
- Perkinsiella saccharicida—Parasites**
Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 47, 1932.
Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 425, 1931.
- Perkinsiella vastatrix** and Fiji disease of sugar cane
biKunkel, Que. Soc. Prot. Pl. R. 25/26: 30, 1934.
biOcfemia, Amer. J. Bot. 21(3): 113-120, 1934.
- Perlidae**
iClaassen, Plecoptera Nymphs of America: 41-91, 1931.
bNeave, Can. Ent. 66: 1-2, 1934.
- Pero peplarioides**
iComstock, So. Cal. Acad. Sci. B. 29: 29-31, 1930.
- Peronaemias elegans**
nFisher, P. Ent. Soc. Wash. 32: 127-128, 1930.
- Peronea spp.**
nMcDunnough, Can. J. Res. 11: 313, 1934.
- Peronea simpliciana**
McDunnough, Can. J. Res. 11: 319, 1934.
- Peronea variana** (Fern.) (Black-headed budworm)*
Balch, For. Chron. 7: 63-64, 1931.
Balch, N.S. Dept. Lands & For. R. f. 1930: 38-44, 1931.
iBalch, Can. Dept. Agr. Div. For. Ins. Sp. C. 1932, 3p.
Balch, N.S. Dept. Lands & For. R. f. 1931: 46-48, 1932; R. f. 1932: 46, 1933; R. f. 1933: 25, 1934.
bPrebble, Can. J. Res. 9: 26-29, 1933.
Schedl, Can. Ent. 64: 1-2, 1932.
Swaine, For. Chron. 9(4): 14, 1933.
Twinn, Que. Soc. Prot. Pl. R. 23/24: 160, 1932.
Weir, Can. Min. Agr. R. f. 1930/1931: 140.
- Peronea walkerana, youngana**
nMcDunnough, Can. J. Res. 11: 303-306, 1934.
- Peronyma**
biBenjamin, USDA TB 401: 24-26, 1934.
- Persimmon insects**
Bailey, Ent. News 44: 14-15, 1933.
bWymore, J. Ec. Ent. 27: 886, 1934.
- Pest control**
Atkinson, B.C. Dept. Agr. R. 26: 9-11, 1931.
Chambers, Wis. Dept. Agr. B. 141: 104-105, 1933.

Pest control Cont'd

- Cole, Oreg. Dept. Agr. B. 36: 19-21, 1934.
- Compson & Farrar, Amer. Flor. 72(2176): 9, 34, 1930.
- Deaver, Better Fruit 25(12): 21, 1931.
- Fleury, Cal. Agr. Mo. B. 20: 588, 1931.
- Glenn, Kans. St. Hort. Soc. Bien. R. 41: 27-28, 1932.
- Heinicke, Neb. St. Hort. Soc. R. 61: 117-118, 1930.
- Jacobsen, Cal. Agr. Mo. B. 19: 801-802, 1930.
- Kelsall, N.S. Fr. Grow. Assoc. R. 68-69: 210, 1932.
- Marsack, B.C. Dept. Agr. R. 25: 33-36, 1930.
- Martin, Tex. Ext. R. f. 1929: 26, 1930.
- Roark, J. Ec. Ent. 25: 730-731, 1932.
- Robertson, B.C. Dept. Agr. R. 27: 17-20, 1932.
- Stephens, Utah St. Bd. Agr. Bien. R. 5: 16, 1930; R. 6: 19, 1932.
- Trent, Okla. Ext. C. 295: 52-53, 1931.
- Vickery, J. Ec. Ent. 27: 1078-1079, '34.
- Willits, Cal. Cit. 16: 423, 436, 1931.
- Woglum, Cal. Cit. 16: 456, 1931; 17: 383, 409, 1932.
- Pest control—Cost**
Chandler, Cit. Leaves 13(9): 9, 1933.
- Pest control—Legislation**
Del Curto, Tex. Dept. Agr. B. 99, 1930, 12p.
- Pest control—Mechanical developments**
Mackie, Cal. Agr. Mo. B. 19: 842-843, 1930.
- Pest control school**
Cal. Cit 16: 436, 1931.
- Pest control and wild animal of life**
Linsdale, Condor 34: 121-134, 1932.
- Pest control associates—So. California**
Extermin. Log 2(4): 16, 18, 1934.
- Petrochroa elegantula**
nSwezey, Hawaiian Ent. Soc. P. 8: 524, 1934.
- Pexomyia genalis**
Clausen, et al., USDA TB 366: 11, 1933.
- Pezoporus sp.**
McConnell, P. Ent. Soc. Wash. 36: 262, 1934.
- Phaecasiophora dispersa**
nHeinrich, PUSNM 79(13): 13-14, 1931.

Phaedon

- Hatch, Pan-Pac. Ent. 7: 103-104, 1931.
- Phaedon aeruginosus Suffr. (Watercress leaf beetle)***
Britton, Conn. B. 344: 175, 1933.
- Phaedrotettix annulicornis, coloratus**
inHebard, Trans. Amer. Ent. Soc. 58: 283-286, 1932.
- Phaenobremia meridionalis**
Williams, Hawaiian Ent. Soc. P. 7: 372, 1931.
- Phaeogenes nigridens**
biSachtleben, Internat. Corn Borer Invest. Sci. R. 3: 102-105, 1930.
biSmith, USDA TB 331, 1932, 46p.
- Phaeogenes sp.**
Cartwright, USDA C. 289: 3-13, 1933.
bClark, USDA TB 455: 23-24, 1934.
- Phaeomolis cajali**
inHoffmann, Mex. Univ. Nac. Inst. Biol. Anal. 5: 201-202, 1934.
- Phalacroceras sp., vancouverensis**
Spencer, B.C. Ent. Soc. P. 27: 15-16, 1930.
- Phalacrus politus Melsh. (Smut beetle)***
biLoben Sels, J. N.Y. Ent. Soc. 42: 319-327, 1934.
- Phalaenidae**
Benjamin, Pan-Pac. Ent. 9: 1-6, 53-62, 145-150, 1933.
Cook, Can. Ent. 62: 257-277, 1930; 63: 1-9, 25-30, 1931.
- Phaleria lodingi**
nBlaisdell, Ent. News 43: 116-118, 1932.
- Phalonia—Key**
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 94, 1930.
- Phanaeus tridens**
Smyth, J. Kans. Ent. Soc. 7: 113, 1934.
- Phanaeus vindex**
biBecton, Ohio J. Sci. 30: 315-323, 1930.
- Phanagenia spp.**
nBanks, Psyche 40: 18-19, 1933.
nBanks, Amer. Acad. Arts & Sci. P. 69(1): 81-83, 1934.
- Phaneroptera furcata (Fork-tailed bush katydid)***
Fulton, Ann. Ent. Soc. Amer. 23: 626-627, 1930.
Quayle, Cal. B. 542: 20, 1932.

- Phaneroptera furcata sinaloae**
 Hebard, Trans. Amer. Ent. Soc. 58:
 306-307, 1932.
- Phanerotoma formosana**
 nRohwer, P. Ent. Soc. Wash. 36: 45-46,
 1934.
- Phanerotoma grapholithae**
 Muesebeck, P. Ent. Soc. Wash. 35:
 50-51, 1933.
- Phanerotoma tibialis**
 Marlatt, USDA Ent. R. f. 1930: 14.
- Phanomeris, P. metalli**
 nMuesebeck, P. Ent. Soc. Wash. 34:
 81-83, 1932.
- Phanomeris phyllotomae**
 Dowden, Ann. Ent. Soc. Amer. 27:
 602-603, 1934.
 nMuesebeck, P. Ent. Soc. Wash. 34: 83,
 1932.
- Phanurus beneficiens**
 Fullaway, Hawaii Bd. Com. Agr. For.
 Bien. R. f. 1929/1930: 80, 1931.
- Phanus godmani**
 inWilliams & Bell, Trans. Amer. Ent.
 Soc. 57: 286-287, 1931.
- *Pharaoh's ant, see Monomorium pha-**
raonis (L.)
- Pharaxonotha kirschi**
 iBack & Cotton, USDA FB 1260, rev.:
 29-30, 1930.
- Pharoscyrnus horni**
 Flanders, J. Ec. Ent. 27: 723-724, 1934.
- Phasiormia**
 nTownsend, J. N.Y. Ent. Soc. 40: 447-
 448, 1932.
- Phasmatidae**
 iBichell, Nature Mag. 15: 221, 1930.
 biRehn, P. Acad. Nat. Sci. Phila. 85: 63-
 65, 1933.
- Phaulomyrma, P. javana**
 nWheeler, Psyche, 37: 193-201, 1930.
- Pheidole californica shoshoni**
 nCole, Ann. Ent. Soc. Amer. 26: 618,
 1933.
- Pheidole lamia**
 Smith, Ent. News 41: 21-22, 1931.
- Pheidole longiceps**
 nAguayo, Bklyn. Ent. Soc. B. 27: 218-
 219, 1932.
- Pheidole megacephala**
 Carter, J. Ec. Ent. 24: 1235, 1931.
- Ehrhorn, Hawaiian Ent. Soc. P. 7:
 393-394, 1931.
- Illingworth, Hawaiian Ent. Soc. P. 8:
 243-244, 1933.
- iNichol, Ariz. B. 138: 643-647, 1931.
- Phillips, Hawaiian Pineapple Prod.
 Coop. Assoc. Exp. Sta. B. 15: 5-12,
 1934.
- Pheidole pilifera**
 Bentley & Rogers, Tenn. Pl. Dis. Con-
 trol. B. 40: 14-15, 1931.
- Pheidole pilifera artemisia**
 nCole, Ann. Ent. Soc. Amer. 26: 616-
 617, 1933.
- Pheidole sciophila semilaevicephala**
 nSmith, Ann. Ent. Soc. Amer. 27: 385-
 386, 1934.
- Pheidole (Pheidolacanthinus) sexspinosa**
adamsoni
 nWheeler, Bernice P. Bishop Mus. B.
 98: 157-158, 1932.
- Pheidole teneriffana taina**
 nAguayo, Bklyn. Ent. Soc. B. 27: 219-
 220, 1932.
- Pheidole vinelandica**
 Cartwright, S.C. R. 43: 72, 1930.
- Pheletes agonus**
 Thomas, Penn. B. 258: 37, 1930; B.
 259: 2, 1930; B. 266: 30-31, 1931; B.
 293: 21, 1933.
- Pheletes ectypus**
 iLaCroix, Conn. B. 335: 261, 1932; B.
 350: 494-498, 1932; B. 359: 380-382,
 1934; B. 367: 140-143, 1934.
- Phelomerus aberrans, ochropygus**
 iPierce, P. Ent. Soc. Wash. 32: 38-48,
 1930.
- Pheimiades antiqua eleutheræ**
 nBates, Bost. Soc. Nat. Hist. Occ. Pap.
 8: 137, 1934.
- Phenacaspis eugeniae sandwicensis**
 nFullaway, Hawaiian Ent. Soc. P. 8:
 103-104, 1932.
- Phenacaspis pinifoliae, see Chionaspis**
pinifoliae
- Phenacoccus acericola**
 iBritton, Conn. B. 344: 129-130, 1933.
 Ladd, N.Y. (C.) R. 46: 105, 1933.
 iMcDaniel, Mich. C.B. 133: 14-15, '30.
- Phenacoccus aceris**
 Gilliatt, N.S. Fr. Grow. Assoc. R. 71:
 43-45, 1934.

Phenacoccus aceris *Cont'd*

Twinn, Ent. Soc. Ont. R. 65: 120, 1934.

Phenacoccus gossypii Towns. & Ckll.
(Mexican mealybug)*

Armitage, Cal. Cult. 77: 329, 1931.

Basinger, Cal. Agr. Mo. B. 20: 193, '31.

Hyslop, J. Ec. Ent. 27: 564, 1934.

Keifer, Cal. Agr. Mo. B. 20: 249, 1931.

iMcDaniel, Mich. Sp. B. 214: 66-67, '31.

iMumford, Ill. R. 45: 144, 1932.

iMyers, J. Ec. Ent. 25: 891-896, 1932.

iPettit, Mich. Ent. R. f. 1930: 10-11.

iPettit, Mich. St. Bd. Agr. R. 69: 212-213, 1930.

Richardson, P. Ent. Soc. Wash. 36: 49, 266, 1934.

Smith & Armitage, Cal. B. 509: 16-17, 1931.

Weigel, So. Flor. 38(2): 8, 1934.

Phenacoccus gossypii—Parasites

Dozier, J. Ec. Ent. 25: 990, 1932.

Dozier & Compton, Sci. News Letter 22: 309, 1932.

Phenacoccus insignis

inLobdell, Ann. Ent. Soc. Amer. 23: 210-211, 1930.

Phenacoccus serratus

Friend, Conn. B. 338: 596, 1932.

Phenacoccus wilmattae

binBueker, Can. Ent. 62: 93-94, 1930.

Phidippus asotus

inChamberlin & Ivie, Utah Univ. B. 23(4): 5-52, 1933.

Phidippus tripunctatus

Stear, Ent. News 44: 48, 1933.

Phidion spp.

bnRehn, Trans. Amer. Ent. Soc. 59: 166-175, 1933.

Phigalia sinuosaria

bClausen, USDA C. 168: 18, 1931.

Philaenus

Doering, J. Kans. Ent. Soc. 3: 91-92, '30.

Philaenus leucophthalmus

biCecil, Ohio J. Sci. 30: 120-130, 1930.

Doering, J. Kans. Ent. Soc. 4(2): 48-49, 1931.

Philaronia

Doering, J. Kans. Ent. Soc. 3: 97-101, 1930.

Philaronia abjecta

Ball, P. Biol. Soc. Wash. 47: 113-114, 1934.

Philates breviceps 33, **servus** 34, **vicinus** 34-35.

nVan Duzee, Cal. Acad. Sci. P. ser. 4. 21(4): 1933.

Philippine coconut leaf miner, see **Promethotheca cumingii**

Philodactyla exotica (Hausermann's rose beetle)

Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 74-75, 1930.

Philodoria costalis

nSwezey, Hawaiian Ent. Soc. P. 8: 524-525, 1934.

Philonthus bernardiensis, **microphthalmus**

nFall, Can. Ent. 62: 252-254, 1930.

Philonthus oklahomensis

nHatch & Ortenburger, Univ. Okla. Biol. Surv. Pub. 2: 12, 1930.

Philonthus ovaliceps

nFall, Can. Ent. 62: 253, 1930.

Philophyllia ingens

inHebard, Trans. Amer. Ent. Soc. 59: 134-136, 1933.

Philoscia briani

iBoone, BAMNH 66: 569-571, 1934.

Philotes battoides bernardino

iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 27-29, 1934.

Philotes sonorensis

iComstock & Coolidge, So. Cal. Acad. Sci. B. 29: 17-21, 1930.

Philotes speciosa

iComstock, So. Cal. Acad. Sci. B. 29: 23, 1930.

iComstock & Dammers, So. Cal. Acad. Sci. B. 31: 90-91, 1932.

Philotrichostylum

nTownsend, J. N.Y. Ent. Soc. 40: 460-461, 1932.

Phlaeothripidae

iHood, P. Ent. Soc. Wash. 36: 111-120, 1934.

Phlaeothrips oleae

iValenzuela, La Hacienda 25: 1, 19, '30.

Phlebodes simplex

inBell, J. N.Y. Ent. Soc. 38: 458, 1930.

Phlebotomus amazonensis

binRoot, Amer. J. Hyg. 20: 244, 1934.

Phlebotomus argenteipes

iRiley & Johannsen, Med. Ent.: 198, 202, 1932.

- Phlebotomus davisii* 242-244, *intermedius* 237-240, *panamensis* 240-241
 biRoot, Amer. J. Hyg. 20: 1934.
- Phlebotomus papatasi*
 biMatheson, Med. Ent.: 190-191, 1932.
- Phlebotomus rostrans*
 bRoot, Amer. J. Hyg. 20: 245, 1934.
- Phlebotomus* spp.
 biRoot, Amer. J. Hyg. 20: 233-246, 1934.
- Phlebotomus* spp. and Carrion's disease
 bHoffman, Assoc. Med. P.R. B. 24: 656-657, 1932.
- Phlebotomus squamiventris*
 biRoot, Amer. J. Hyg. 20: 234-237, 1934.
- Phlegethontius*, *see* *Protoparce*
- Phlepsi*us, P. (Dixianus) *condalianus* *urinus*
 nBall, Pan-Pac. Ent. 8: 85-90, 1931.
- Phlepsi*us (Dixianus) *denudatus* *carpolus*
 nBall, Pan-Pac. Ent. 8: 87, 1931.
- Phlepsi*us *divergens*
 inOman, J. Wash. Acad. Sci. 21: 435, '31.
- Phlepsi*us *irroratus*
 Lawson, J. Kans. Ent. Soc. 3: 41-42, 1930.
- biOsborn, USDA C. 241: 25, 1932.
- Phlepsi*us *ishidae*
 Oman, P. Ent. Soc. Wash. 35: 205-206, 1933.
- Phlepsi*us *lycioides* *mohavensis*, *nevadus*
 nBall, Pan-Pac. Ent. 8: 87-88, 1931.
- Phlepsi*us *obvius*
 inOman, J. Wash. Acad. Sci. 21: 435-436, 1931.
- Phlepsi*us (Texaninus) *oregonus*
 nBall, Pan-Pac. Ent. 8: 85-87, 1931.
- Phlepsi*us *smithi*
 inDozier, Amer. Mus. Nov. 510: 11-12, 1931.
- Phloeodes*
 Blaisdell, Pan-Pac. Ent. 10: 110, 1934.
- Phloeophagosoma tenuis*
 Swezey, Hawaiian Ent. Soc. P. 7: 374, 1931.
- Phloeosinus aciculatus*
 nBruck, Pan-Pac. Ent. 7: 127-128, 1931.
- Phloeosinus canadensis*
 Schedl, Can. Ent. 64: 1, 1932.
- Phloeosinus cristatus* (Cypress twig borer)
 Burke, Pan-Pac. Ent. 6: 181, 1930.
 Burke, Cal. Agr. Mo. B. 21: 366, 1932.
- Burke, Nat. Shade Tree Conf. P. 9: 54-55, 1933.
- Ryan, Cal. Agr. Mo. B. 20: 354-355, 1931.
- Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 23.
- Phloeosinus cupressi*
 Burke, Nat. Shade Tree Conf. P. 9: 54-55, 1933.
- Phloeosinus dentatus*
 McDaniel, Mich. Quar. B. 16: 246, '34.
- Phloeosinus frontalis*
 nBruck, Can. Ent. 65: 55-56, 1933.
- Phloeosinus piceae*
 nSwaine, Can. Ent. 66: 205-206, 1934.
- Phloeosinus setosus*, *swainei*
 nBruck, Can. Ent. 65: 54-56, 1933.
- Phloeosinus variolatus*
 nBruck, Pan-Pac. Ent. 7: 126-127, 1931.
- Phloeotribus liminaris*
 Bentley, Tenn. St. Hort. Soc. P. 25: 92, 1930.
- Phloeoxena imitatrix* 114-115, *plagiata* 114, *schwarzi* 115-116.
 nDarlington, Psyche 41: 1934.
- Phloeothrips*, *see* *Phlaeothrips*
- Phlox* insects
 Flor. Rev. 70(1809): 25, 1932.
- Phlyctaenia ferrugalis*, *see* *Phlyctaenia rubigalis*
- Phlyctaenia rubigalis* (Guen.) (Greenhouse leaf tyer)*
 iBall, Boyden & Stone, Fla. B. 250: 3-16, 1932.
- Beattie, USDA FB 1431 rev.: 21, 1930.
- bBentley & Bartlett, Tenn. Pl. Dis. Control. B. 57: 40-42, 1931.
- Britton, Conn. B. 344: 93, 1933.
- Caffrey, Md. Agr. Soc. R. 19: 276, 1934.
- iCompton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 39-42, 1930.
- iDustan, Can. Dept. Agr. Ent. B. 32: 52, 1932.
- iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 13-14, 1934.
- iGilbert & Popenoe, USDA FB 1371 rev.: 20-21, 1934.
- Hutson, Mich. Quar. B. 14: 91-93, '31.
- McDaniel, Mich. Sp. B. 214: 71-73, 1931.
- Marlatt, USDA Ent. R. f. 1930: 32; R. f. 1933: 21, 38-39.

Phlyctaenia rubigalis *Cont'd*

- Miller, Fla. Ent. 15: 28-34, 1931.
 iMumford, Ill. R. 42: 150, 1929; R. 43: 147-149, 1930; R. 44: 146-147, 1931; R. 45: 142, 1932.
 Newell, Fla. St. Pl. Bd. Bien. R. 10: 21, 1934.
 Stone & Wisecup, USDA YB f. 1931: 136-138.
 iStone et al, Fla. B. 251, 1932, 23p.
 Stoner, Fla. Ent. 14: 21-22, 1930.
 Wallace, Ind. YB f. 1930: 479.
 Watson, Fla. B. 232: 47-48, 1931.
 iWisecup & Miller, Fla. Ent. 17: 61, '33.
- Phlyctaenia rubigalis**—Traps
 Neiswander, Ohio Wkly. P.B. 17(40), 1932.
- Phlyctaenia rubigalis and temperature**
 Filing, J. Ec. Ent. 24: 52-54, 1931.
 bMaxwell, Que. Soc. Prot. Pl. R. 25/26: 106-110, 1934.
- Phlyctaenia tertialis**
 bBaldur, P. Ent. Soc. Wash. 32: 31-36, 1930.
- Phlyctaenia violae**
 nSwezey, Hawaiian Ent. Soc. P. 8: 299-300, 1933.
- Phobetron pithecium** (Hag moth)*
 iWatson & Berger, Fla. Ext. B. 67: 118, 1932.
- Phobetus mojavus, sloopi**
 inBarrett, Can. Ent. 65: 130-132, 1933.
- Phocides spp.**
 nBell, Trans. Amer. Ent. Soc. 58: 169-199, 1932.
- Phoebis**
 biBrown, Amer. Mus. Nov. 653, 1933, 5p.
- Phoebis tatei**
 binBrown, Amer. Mus. Nov. 653: 1-3, '33.
- Phoenicococcini**
 bnStickney, USDA TB 404: 26-34, 1934.
- Phoenicococcus**
 bStickney, USDA TB 404, 34-37, 1934.
- Phoenicococcus marlatti** Ckll. (Red date scale)*
 Del Curto, Tex. Comm. Agr. R. 24: 55, 1932.
 Essig, Hist. of Ent.: 126-127, 1931.
 Moulton, Cal. Agr. Mo. B. 20: 758, '32.
 biStickney, USDA TB 404, 1934, 162p.
 Strong, USDA BPQ R. f. 1933: 30.

Phoenicococcus marlatti—Quarantine

- Strong, USDA BPQ Q 6, Dec. 1932. 1p.
- Phoenicophanta**—Synonymy
 Benjamin, P. Ent. Soc. Wash. 34: 125, 1932.
- Phoenicophanta modestula**
 Benjamin, Pan-Pac. Ent. 9: 5-6, 1933.
- Phoenicoprocta**—Key
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 19-20, 1930.
- Phoenix billbug**, *see* **Calendra phoenicensis**
- Pholus**—Key
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 65, 1930.
- Pholus fasciatus**
 Miller, Fla. Ent. 15: 49-50, 1931.
- Pholus pandorus**
 Britton, Conn. B. 327: 572, 1931.
 McDaniel, Mich. Sp. B. 243: 48, 1933.
- Phonograph record insects**
 USDA Off. Rec. 11: 211, 1932.
- Phorbia brassicae**, *see* **Hylemya brassicae**
- Phorbia rubivora**, *see* **Pegomyia rubivora**
- Phoridae** (Manure flies)
 Brues, Psyche 39: 134-138, 1932.
 biThomas, Penn. St. B. 270: 23-26, 1931.
 inVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21: 70-73, 1933.
- Phormia regina** (Fleece-worm fly)
 biAuten, Ann. Ent. Soc. Amer. 27: 481-506, 1934.
 bCowan, Ohio J. Sci. 32: 389-392, 1932.
 Haub & Miller, J. Exp. Zool. 64: 51-56, 1932.
 Hearle, B.C. Ent. Soc. P. 30: 14-15, 1933.
 Laake, USDA TB 270: 2-10, 1931.
 Laake & Cushing, J. Ec. Ent. 23: 967-972, 1930.
- biMcIndoo, J. Morph. 56: 445-475, 1934.
 Marsh, Nat. Wool. Grow. 21(3): 26-27, 1931.
- biMelvin, Ann. Ent. Soc. Amer. 27: 406-410, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 78, 1933.
 Willman, N.Y. (C.) Ext. B. 45: 43, '32.
- Phormia regina**—Maggot therapy
 Bishop, USDA YB f. 1932: 208.
 Bishop & White, P. Ent. Soc. Wash. 33: 235, 1931.

- bCausey, Amer. J. Hyg. 15: 276-286, '32.
 biFletcher & Haub, Ohio J. Sci. 33: 101-108, 1933.
 bMiller, Doan & Wilson, Ohio J. Sci. 32: 1-9, 1932.
 bRobinson, Ann. Ent. Soc. Amer. 26: 270-276, 1933.
 bRobinson, J. Lab. & Clin. Med. 20: 77-85, 1934.
 bWentworth, Indus. Med. 2: 310-313, 1933.
 White, J. Parasit. 18: 133, 1931.
- Phorocera agilis**
 Brown, USDA C. 176: 15, 1931.
 Collins, Mass. Comm. Conserv. St. For. R. f. 1932: 28.
 Marlatt, USDA Ent. R. f. 1930: 51; R. f. 1932: 24; R. f. 1933: 30.
- Phorocera claripennis**
 Noble, USDA C. 248: 3, 1932.
- Phorocera erecta**
 bClark, USDA TB 455: 20, 1934.
- Phorocera mitis**
 nCurran, BAMNH 61: 108-109, 1931.
- Phorocera ormissa**
 nReinhard, Bklyn. Ent. Soc. B. 29: 193-195, 1934.
- Phorocera pumilio**
 nAldrich, P. Ent. Soc. Wash. 35: 22-23, 1933.
- Phorocera tuxedo**
 nCurran, BAMNH 61: 110, 1931.
- Phorodon humuli (Schr.) (Hop aphid)***
 Essig & Hoskins, Cal. Ext. C. 87: 59, 1934.
 Hutson, Mich. Sp. B. 244: 14, 1933.
 Mote, Pac. Hop Grow. 2(3): 5, 1934.
 Newcomer, USDA C. 270: 50, 1933.
- Phorodon menthae**
 Bartholomew, Ann. Ent. Soc. Amer. 25: 727, 1932.
- Photinus pyralis**
 iAllard, P. Ent. Soc. Wash. 33: 49-58, 1931.
 Rau, Ecology 13(1): 7-11, 1932.
- Photocryptus, P. ater, pachymenae**
 nCushman, PUSNM 79(14): 2-5, 1932.
- Photography of insects, see Insects—Photography**
- Photomorphus**
 Mickel, Ann. Ent. Soc. Amer. 27: 610-613, 1934.
- Photopsis rotifera**
 nDow, Bost. Soc. Nat. Hist. Occ. Pap. 8: 2-4, 1931.
- Photuris pennsylvanica**
 biBrown & King, Physiol. Zool. 4: 287-293, 1931.
 Harvey, J. Gen. Physiol. 15: 140, 1931.
 Rau, Ecology 13: 7-11, 1932.
 iSnell, Science n.s. 73: 372-373, 1931.
 biSnell, J. Cellular & Comp. Physiol. 1: 37-51, 1932.
- Phriza carinata, puebla**
 inHebard, Trans. Amer. Ent. Soc. 58: 313-314, 1932.
- Phryganea spokanensis**
 inCarpenter, Ann. Ent. Soc. Amer. 24: 320, 1931.
- Phryganidia californica Pack. (California oak worm)***
 Burke, Cal. Agr. Mo. B. 21: 359, 1932.
 Burke, Nat. Shade Tree Conf. P. 9: 51, 1933.
 Essig, & Hoskins, Cal. Ext. C. 87: 63, 1934.
- Phryganocydia corymbosa**
 Frost, Ann. Ent. Soc. Amer. 24: 399, '31.
- Phrynidius armatus**
 nLinsley, Pan-Pac. Ent. 9: 131-132, '33.
- Phtheria badia**
 Painter, Ann. Ent. Soc. Amer. 23: 804, 1930.
- Phthia picta**
 Jones & Clark, Tex. R. 47: 53, 1934.
- Phthiracaridae and fungi**
 iJacot, Mycologia 22: 94-96, 1930.
- Phthiracarinae, Phthiracarus**
 biJacot, Bost. Soc. Nat. Hist. P. 39: 209-261, 1930.
 biJacot, Elisha Mitchell Sci. Soc. J. 48: 232-267, 1933.
- Phthiridium hermanni, vespertillonis**
 iCollins, Nat. Inst. Health B. 155: 751-755, 1931.
- Phthirus, see Phthirus**
- Phthirus gorillae**
 Ewing, Amer. Nat. 67: 371, 1933.
- Phthirus pubis (L.) (Crab louse)***
 Cecil, Text-book of Med. ed. 3: 513, 1934.
- Phthorimaea, see Gnorimoschema**
- Phthorophloeus**
 Priego, La Hacienda 27: 434, 1932.

- Phyciodes batesii**
Saunders, N.Y. St. Mus. Hdbk, 13:
111-113, 1932.
- Phyciodes batesii harperi**
nGunder, Can. Ent. 64: 283-284, 1932.
- Phyciodes campestris**
iComstock, So. Cal. Acad. Sci. B. 29:
136-138, 1930.
- Phyciodes gorgone thornei**
nGunder, Can. Ent. 66: 130-131, 1934.
- Phyciodes ismeria gorgone**
Handford, Can. Ent. 65: 95, 1933.
- Phyciodes mylitta collinsi**
nGunder, So. Cal. Acad. Sci. B. 29: 62-
63, 1930.
- Phyciodes mylitta macyi**
nFender, Ent. News 41: 182, 1930.
- Phyciodes nycteis greyi**
bnField, Can. Ent. 66: 256-257, 1934.
- Phyciodes phaon**
iRoig & Villalba, Rev. de Agr. Cuba
15(4): 32, 1934.
- Phyciodes tharos (Pearl crescent)**
Gunder, Pan-Pac. Ent. 8: 158, 1932.
iSaunders, N.Y. Mus. Hdbk 13: 113-
118, 1932.
- Phygadeuon sp.**
Williams, Hawaiian Ent. Soc. P. 8: 233,
1933.
- Phygopoda manni**
nFisher, PUSNM 77(19): 15-17, 1931.
- Phyllium spp.**
binRehn & Rehn, P. Acad. Nat. Sci. Phila.
85: 411-427, 1933.
- Phyllobrotica antennata, stenidea**
nSchaeffer, Can. Ent. 64: 237-238, 1932.
- Phyllocnistis citrella**
biClausen, USDA TB 252: 1-5, 1931.
Clausen, Cit. Leaves 13(4): 11, 1933.
- Phyllocoptes aceris-crumena**
iHodgkiss, N.Y. (Gen.) TB 163: 21-22,
1930.
- Phyllocoptes brevisetosus**
iHodgkiss, N.Y. (Gen.) TB 163: 36, '30.
- Phyllocoptes constrictus**
iHodgkiss, N.Y. (Gen.) TB 163: 27-28,
1930.
- Phyllocoptes cornutus**
Hutson, J. Ec. Ent. 24: 1086, 1931.
Hutson, Mich. Quar. B. 15: 223-224,
1933.
iPettit, Mich. Ent. R. f. 1931: 13.
- Pettit, Mich. St. Bd. Agr. R. 70: 263-
264, 1931.
- Ross & Putman, Ent. Soc. Ont. R. 64:
36-37, 1933.
- Phyllocoptes fockeui**
Twinn, Ent. Soc. Ont. R. 65: 122, 1934.
- Phyllocoptes magnificus**
iHodgkiss, N.Y. (Gen.) TB 163: 38, '30.
- Phyllocoptes minutissimus**
Hodgkiss, N.Y. (Gen.) TB 163: 34, '30.
- †**Phyllocoptes oleivorus Ashm. (Citrus
rust mite)***
Amer. Agr. Chem. Co., Rev. de Agr.
Cuba 13(6): 45-47, 1931.
Bingham, Tex. Cit. 8(11): 6, 14-15, '32.
bBinney, Cal. Agr. Mo. B. 23: 201-203,
1934.
Clark, Tex. R. 45: 207, 1932; 47: 237-
238, 1934.
- biClark, Tex. C. 67: 43-44, 1933.
Clark, Edinburg Coll. Tex. Ann. Cit.
Inst. 3: 67-69, 1934.
- bClausen, USDA C. 168: 42, 1931.
DeBusk, Fla. Coop. Ext. R. f. 1931: 65.
DeBusk & Yothers, Cit. Ind. 15(5): 26,
1934.
Iddings, Utah B. 197: 38-39, 1933.
Iddings, Ida. B. 205: 45, 1934.
- biLockwood, Cal. Agr. Mo. B. 22: 340,
1933.
Marlatt, USDA Ent. R. f. 1932: 6; R.
f. 1933: 9.
Miller, Yothers & Bassett, Fla. St.
Hort. Soc. P. 46: 52-56, 1933.
Pope, Hawaii B. 71: 15-16, 1934.
- biQuayle, Cal. B. 542: 12-13, 1932.
Regan, Wash. St. Hort. Assoc. P. 25:
131-132, 1929.
- iSanderson, Ins. Pests Farm ed. 3: 468-
469, 1931.
- iWatson & Berger, Fla. Ext. B. 67: 87-
93, 1932.
- biYothers & Mason, USDA TB 176,
1930, 56p.
Yothers & Miller, Fla. St. Hort. Soc. P.
47: 53-55, 1934.
- Phyllocoptes quadripes (Maple bladder
gall mite)**
Chambers, Wis. Hort. 21: 227, 1931.
Chambers & Thompson, Wis. Dept.
Agr. B. 145: 49, 1933.

- Felt, J. Ec. Ent. 24: 917-918, 1931; 26, 50, 1933.
- biHerrick, N.Y. (C.) B. 515: 16-21, 1931.
- iHodgkiss, N.Y. (Gen.) TB. 163: 16-18, 1930.
- iMcDaniel, Mich. Sp. B. 243: 67, 1933.
- Phyllocoptes quinquilobus**
- iHodgkiss, N.Y. (Gen.) TB 163: 33-34, 1930.
- Phyllocoptes schlechtendali (Rust mite)**
- biLockwood, Cal. Agr. Mo. B. 22: 321, 1933.
- Newcomer, USDA C. 270: 21, 51, 1933.
- Spuler & Gillies, Northw. Fr. Grow. 3(7): 6, 18, 1931.
- Webster, Wash. St. Hort. Assoc. P. 27: 19, 1931.
- Phyllocoptes sp.**
- Cory, Md. Agr. Soc. R. 18: 220, 1934.
- Haegle, Ida. St. Hort. Assoc. Conv. 38: 81-82, 1933.
- Patterson, Md. R. 45: xviii, 1932.
- Thompson, Fla. R. f. 1934: 84.
- Phyllocoptes splendidus** 37, **trilobis** 38-39, **variabilis** 26-27.
- Hodgkiss, N.Y. (Gen.) TB 163: 1930.
- Phyllonorycter—Key**
- Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 139, 1930.
- Phyllonorycter (Lithocolletes) cincinnatiella**
- McDaniel, Mich. Sp. B. 243: 43, 1933.
- Phyllonorycter crataegella**
- Newcomer, USDA C. 270: 40, 1933.
- Phyllonorycter felinella**
- Burke, Nat. Shade Tree Conf. P. 9: 53, 1933.
- Phyllonorycter intermixta**
- nBraun, Trans. Amer. Ent. Soc. 56: 11-12, 1930.
- Phyllonorycter malifoliella**
- iSmith, J. Kans. Ent. Soc. 7: 50, 1934.
- Phyllonorycter propinquinella**
- iQuaintance & Siegler, USDA FB 1270 rev.: 61, 1931.
- Phyllonorycter stigmaphyllae**
- nBusck, Ent. Amer. n.s. 13: 171-172, '33.
- Phyllontocheila admiranda**
- nDrake, Pan-Pac. Ent. 8: 96, 1931.
- Phyllopecta vitiensis**
- iKlyver, Bernice P. Bishop Mus. B. 98: 99-101, 1932.
- Phyllopertha pubicollis—Parasites**
- biParker, J. Ec. Ent. 27: 486-491, 1934.
- †Phyllophaga**
- Bailey, Vt. Dept. Agr. B. 42: 12, 1934.
- Beard, Amer. Boys' Bk. Bugs: 235-236, 1932.
- bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 50, 1931.
- Blauvelt, N.Y. (C.) Ext. B. 296: 38-39, 1934.
- iBourne, Mass. Ext. Leaf. 20 rev.: 24, 1933.
- Brandt. Lawn Care 7(1): 4, 1934.
- Britton, Conn. B. 344: 100, 1933.
- Brooks, Watson & Mowry, Fla. Co-op. Ext. B. 63: 49, 1932.
- Buchanan & Stevenson, Iowa R. f. 1933: 68.
- Burkett, Tex. Dept. Agr. B. 111: 204, 1932.
- iCaesar, Ont. Dept. Agr. B. 359: 10-12, 1931.
- iChambers & Thompson, Wis. Dept. Agr. B. 123: 24-26, 1931; B. 145: 38-39, 1933.
- Chapin, Ann. Ent. Soc. Amer. 25: 179-181, 1932.
- Christenson, Wis. B. 421: 86-87, 1932.
- Christenson, Wis. B. 428: 97-100, 1934.
- Clark, Wis. B. 425: 88-92, 1932.
- Compton, Ill. St. Nat. Hist. Surv. Ent. ser. C. 12: 83-84, 1930.
- Compton, Ill. C. 391: 15-16, 1932.
- Crosby et al., N.Y. (C.) Ext. B. 306: 16-17, 1934.
- Davis, Ind. Acad. Sci. P. 39: 293, 1930; P. 40: 309, 1931.
- iDavis, Ind. Ext. B. 186: 15-16, 1932.
- Dean, Kans. St. Hort. Soc. Bien. R. 40: 145-146, 1930; R. 42: 141-142, 1934.
- Doane, Common Pests: 252, 1931.
- Drake & Collins, Iowa Agr. Res. R. f. 1931: 58-59; R. f. 1932: 54-55.
- Drake & Collins, Iowa R. f. 1934: 92.
- biDuryee, N.J. Dept. Agr. C. 163, 1929, 13P.
- Dustan, Can. Dept. Agr. Ent. B. 32: 20-21, 1932.
- Eddy et al., Ky. B. 353: 236-237, 1934.
- Edwards, Guam R. f. 1930: 25, 1931.
- Filinger, Ohio B. 470: 85, 1931.

†Phyllophaga Cont'd

- Fluke, Ecol. Soc. Amer. B. 11(4): 16, 1930.
 Fluke, Rocky Mt. Conf. Ent. R. 9: 4, 1932.
 Fluke, Wis. Hort. 24: 224, 1934.
 iFluke, et al, Ecology 13: 43-50, 1932.
 iFluke & Koch, Wis. B. 420: 5-12, 1931.
 Fluke et al., J. Ec. Ent. 24: 450-452, 1931.
 iFolsom, USDA FB. 1688: 23, 1932.
 Friend, Conn. B. 315: 614, 1930.
 Friend, Conn. Veg. Grow. Assoc. R. 20: 67-68, 1933.
 Frison, Ill. Dept. Reg. & Ed. R. 15: 26, 1932.
 Gardner, Mich. Bien. R. f. 1930: 26-27.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 58-59, 1934.
 Graber & Fluke, Wis. Sp. C. Jan. 1934, 4p.
 iGraber et al, Ecology 12: 547-556, '31.
 iGranovsky, Minn. Hort. 62: 113, 118, 1934.
 Hammond, Que. Soc. Prot. Pl. R. 25/26: 70-74, 1934.
 iHammond & Maheux, Que. Min. de l'Agr. B. 130, 1934, 15p.
 Hatch, Wis. Ext. R. f. 1930/1931: 25.
 Hatch, Wis. C. 251: 25, 1932.
 Hinds, Sugar B. 9(15): 4, 1931.
 Holloway, Facts about Sugar 26: 445, 1931.
 Hutson, Mich. R. 47: 213-214, 1934.
 iJaques, P. Iowa Acad. Sci. 37: 387-388, 1931.
 Kuntz, P.R. Ins. C. 98: 16, 1932.
 bLeach, N.J. C. 163, 1929, 13p.
 Loree, Mich. Sp. B. 182 rev.: 29, 1933.
 iMcDaniel, Mich. Sp. B. 214: 93-94, 1931; B. 243: 11-13, 1933.
 iMaheux, Que. Min. de l'Agr. B. 118: 16-17, 1933.
 Maheux & Petch, Ent. Soc. Ont. R. 60: 16, 1930.
 Marlatt, USDA Ent. R. f. 1933: 17.
 Morofsky, J. Ec. Ent. 26: 831-834, '33.
 Morofsky, Mich. Quar. B. 15: 225-226, 1933.
 Mozzette et al., USDA FB 1654: 32, 1931.
 Mumford, Ill. R. 45: 131, 1932; R. 46: 142, 1933.
 iMunro & Riddle, N. Dak. C. 42 rev.: 60-61, 1933.
 Peirson & Nash, Maine For. Com. R. 18: 74-79, 1931.
 Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 8.
 iPettit, Mich. Ext. B. 117: 8, 1931.
 Pieper, et al, Ill. B. 344: 275, 1930.
 iPierstorff & Parks, Ohio Ext. Pl. Dis. & Ins. Notes 1(2): 1-2, 1930.
 Price & Eddy, Ky. St. Hort. Soc. Trans. 77: 121, 1932.
 Pring, Missouri Bot. Gard. B. 20: 69-70, 1931.
 Rawson, Sci. Month. 39: 505, 1934.
 Rice, Rev. Agr. P.R. 26: 79-82, 1931.
 Rios, P.R. Ins. B. 36: 47, 1930.
 Rios & Reinat, P.R. Ins. C. 93: 30, '31.
 iRols, Ent. News 43: 13-15, 1932.
 Ruggles, Minn. Hort. 59: 72, 1931.
 Sanderson, Ins. Pest Farm ed. 3: 71-75, 1931.
 Stear, J. Ec. Ent. 25: 932-933, 1932.
 iStrayer, Iowa Agr. 33: 36, 1932.
 Strong, USDA Ent. R. f. 1934: 8-9.
 biSweetman, Ecology 12: 401-422, 1931.
 biTravis & Becker, Iowa St. Col. J. Sci. 5: 223-235, 1931.
 Travis, Rocky Mt. Conf. Ent. R. 9: 5, 1932.
 bTravis, Iowa St. Col. J. Sci. 7: 397-406, 1933.
 Travis & Decker, Iowa St. Col. J. Sci. 7: 493-498, 1933.
 Violette, Maine For. Com. R. 19: 66-67, 1932.
 Wallace et al., Ind. Dept. Conserv. R. 14: 55, 1932.
 iWalton, USDA FB 835 rev.: 13-14, '31.
 iWard, Gregory & Gould, Ind. Ext. B. 89, ed. 4 rev.: 21, 1933.
 iWatson, Fla. B. 232: 81-82, 1931.
 Whitehouse et al., Md. R. 43: 215, '30.
 iWolcott, Ec. Ent. of West Indies: 105-108, 112-113, 1933.
 biWolcott, P.R. Univ. J. Agr. 18: 436-441, 1934.
Phyllophaga—Ploughing
 iDrake & Collins, Iowa R. f. 1932: 54-55.

- iDrake, Travis & Collins, J. Ec. Ent. 25: 199-206, 1932.
- Hammond, Ent. Soc. Ont. R. 64: 47-52, 1933.
- Phyllophaga aeneotincta* 201, *aeruginosa* 204-205, *alquizarra* 204, *analis* 197-199, *angusta* 205.
- Chapin, Ann. Ent. Soc. Amer. 25: 1932.
- Phyllophaga anxia*
- iHammond, Ent. Soc. Ont. R. 61: 69-73, 1931.
- iHammond, J. Agr. & Hort. 36: 235, 245, 1933.
- Petch, Ent. Soc. Ont. R. 61: 18, 1931.
- Twin, Ent. Soc. Ont. R. 64: 65, 1933; R. 65: 114-115, 1934.
- Phyllophaga baracoana* 188-189, *baraguenis* 185-186, *bicavifrons* 187-188, *bruneri* 203, *cardini* 197.
- nChapin, Ann. Ent. Soc. Amer. 25: 1932.
- Phyllophaga contaminata*
- nFall, J. N.Y. Ent. Soc. 40: 197-198, '32.
- Phyllophaga crassissima*
- Taubenhaus & Christenson, Assoc. South. Agr. Workers P. 35: 344-345, 1934.
- Phyllophaga crenaticollis, cubana*
- inChapin, Ann. Ent. Soc. Amer. 25: 183-184, 194, 1932.
- Phyllophaga diffinis*
- Sim, J. N.Y. Ent. Soc. 38: 146-147, '30.
- Phyllophaga dissimilis*
- iChapin, Ann. Ent. Soc. Amer. 25: 201-202, 1932.
- Phyllophaga ephilida*
- iSim, USDA C. 334: 7-8, 1934.
- Phyllophaga expansa*
- inChapin, Ann. Ent. Soc. Amer. 25: 182-183, 1932.
- Phyllophaga extranea*
- nFall, J. N.Y. Ent. Soc. 40: 198-199, '32.
- Phyllophaga fimbriata*
- inChapin, Ann. Ent. Soc. Amer. 25: 182, 1932.
- Phyllophaga fusca*
- Britton, Conn. B. 315: 617, 1930.
- iPettit, Mich. C.B. 132, 1930, 10p.
- iPettit, Mich. Ext. B. 125: 6, 1932.
- Phyllophaga gracilis*
- biFletcher, Ohio J. Sci. 30: 109-119, '30.
- Phyllophaga imitatrix* 199, *jaronua* 194-195, *labrata* 199-200, *microsoma* 202-203, *onchophora* 184, *parallela* 205-206, *patruelis* 191-192.
- iChapin, Ann. Ent. Soc. Amer. 25: 1932.
- Phyllophaga portoricensis*
- Mungomery, Facts about Sugar 25: 667, 1930.
- Phyllophaga puberula* 189-190, *santaclarae* 191, *schwarzi* 184-185, *signaticollis* 190-191, *speculifera* 196-197.
- Chapin, Ann. Ent. Soc. Amer. 25: 1932
- Phyllophaga subtonsa*
- Sim, J. N.Y. Ent. Soc. 38: 147, 1930.
- Phyllophaga suturalis*
- iChapin, Ann. Ent. Soc. Amer. 25: 200-201, 1932.
- Phyllophaga tegulicollis, temascaltepeca*
- nSaylor, J. Ent. & Zool. 26: 49-50, 1934.
- Phyllophaga tenuicalcaris, tetracera*
- inChapin, Ann. Ent. Soc. Amer. 25: 192-193, 1932.
- Phyllophaga tristis*
- Britton, Conn. B. 360: 474, 1934.
- iSim, USDA C. 334: 8, 1934.
- Phyllophaga tuberculifrons*
- iChapin, Ann. Ent. Soc. Amer. 25: 186-187, 1932.
- Phyllophaga (Phytalus) valeriana*
- nSaylor, J. Ent. & Zool. 26: 50, 1934.
- Phyllophaga vermiculata*
- inChapin, Ann. Ent. Soc. Amer. 25: 195-196, 1932.
- Phylloscelis atra*
- Ball, Can. Ent. 62: 193, 1930.
- biDobroscky, Boyce Thompson Inst. Contrib. 3: 59-83, 1931.
- Phylloscelis rubra*
- nBall, Can. Ent. 62: 194, 1930.
- Phylloscelis spp.*
- Ball, Can. Ent. 62: 192-195, 1930.
- Phyllotoma nemorata*
- Brower, J. Ec. Ent. 26: 732, 1933; 27: 342-344, 1934.
- bDowden, Ann. Ent. Soc. Amer. 27: 602-603, 1934.
- Glasgow, N.Y. St. Mus. C. 6, 1931, 3p.
- Glasgow, J. Ec. Ent. 25: 693-695, 1932.
- Macdonald, N.Y. Conserv. Dept. R. 20: 188-189, 1930.
- iPeirson, Maine For. Serv. C. 1: 1930. 8p.

- Phyllotoma nemorata* Cont'd
 iPeirson, Field Book of Destruct. For. Ins. ed. 2: 10, 1932.
 iSimpson, For. Chron. 8: 89-92, 1932.
 biTaylor, J. Ec. Ent. 23, 587-595, 1930.
 bTaylor, Ann. Ent. Soc. Amer. 24: 452-466, 1931.
 Violette, Maine For. Com. R. 19: 62, 1932.
- Phyllotreta aerea*
 Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929, 10-11.
- Phyllotreta albionica*
 iDustan, Can. Dept. Agr. Ent. B. 32: 49, 1932.
 Twinn, Ent. Soc. Ont. R. 65: 116, 1934.
- Phyllotreta armoraciae* (Koch) (Horseradish flea beetle)*
 Britton, Conn. B. 344: 119, 1933.
 Compton, Ill. B. 391, 42, 1932.
 Jacobsmeyer, Veg. Grow. Assoc. Amer. R. f. 1933: 68, 1933.
- Phyllotreta vittata* (Striped flea beetle)*
 iCaesar, Ont. Dept. Agr. B. 359: 38-39, 1931.
 iCompton, Ill. C. 391: 9-10, 1932.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 14-15, 1933; B. 278: 14-15, 1934.
 Dustan, Can. Dept. Agr. Ent. B. 32: 45, 1932.
 Hamilton & Gemmell, J. Ec. Ent. 27: 451-452, 1934.
 Peterson, USDA Off. Rec. 11: 209, '32.
- Phylloxera caryaecaulis*
 Felt & Bromley, Nat. Shade Tree Conf. P. 6: 20, 1930.
 iMoznette et al, USDA FB 1654: 41-42, 1931.
 Porter, North. Nut Grow. Assoc. R. 23: 75-76, 1932.
 iWhitehead, Okla. R. f. 1932/1934: 260-262.
- Phylloxera devastatrix* Perg. (Pecan phylloxera)*
 Baker, Nat. Pecan Grow. Assoc. P. 31: 49-53, 1932.
 Marlatt, USDA Ent. R. f. 1931: 16; R. f. 1932: 5; R. f. 1933: 8.
 Porter, North. Nut Grow. Assoc. R. 23: 75-76, 1932.
- Whitehead, Okla. R. f. 1930/1932: 265-267.
- Phylloxera notabilis*
 Baker, Nat. Pecan Grow. Assoc. P. 31: 50-53, 1932.
 iWhitehead, Okla. R. f. 1932/1934: 262-264.
- Phylloxera vastatrix*, see *Phylloxera vitifoliae*
- Phylloxera vitifoliae* Fitch (Grape phylloxera)*
 Bonnikson, Cal. Agr. Mo. B. 19: 374, 1930.
 Doane, Common Pests: 203-204, 1931.
 Essig, Hist. of Ent.: 110-117, 1931.
 Flint & Metcalf, Insects Man's Chief Competitors; 84-88, 1932.
 Howard, Hist. of Appl'd Ent.: 212-216, 1930.
 Ruggles, Minn. Hort. 62: 33, 1933.
 Sanderson, Ins. Pests Farm, ed. 3: 410-413, 1931.
- Phylloxera-Resistant grape vines*
 Cates, Country Gentl. 101(9): 15, 66, 1931.
- Phylloxera-Spraying*
 USDA YB f. 1933: 35.
- Phylloxeroxenes* sp.
 Bridwell, P. Ent. Soc. Wash. 36: 264, 1934.
- Phyloblatta pennsylvanica*
 in Carpenter, Carnegie Mus. Ann. 22: 334, 1934.
- Phylocentropus carolinus*
 nCarpenter, Psyche 40: 43-44, 1933.
- Phymaphora californica, pulchella*
 iBlaisdell, Trans. Amer. Ent. Soc. 56: 383-390, 1930.
- Phymata* spp.
 in Evans, Ann. Ent. Soc. Amer. 24: 711-736, 1931.
- Phymatodes albofasciatus*
 bClausen, USDA C. 168: 34-35, 1931.
- Phymatodes blandus picipes* 165, concolor 181-182, propinquus 181.
 nLinsley, Ent. News, 45: 1934.
- Phymatodes testaceus*
 Knull, Ent. News, 45: 210, 1934.
- Phymatodes vulneratus*
 Leech, Can. Ent. 62: 191-192, 1930.
- Phymatopterella, P. shannoni*
 nBrues, Psyche 40: 106-111, 1933.

- Phyrdenus muriceus**
 Brisley, Pan-Pac. Ent. 6: 127-128, '30.
- Physcus uvae**
 nDozier, P. Ent. Soc. Wash. 35: 94, '33.
- Physcus varicornis**
 Baker, USDA C. 295: 8-9, 1933.
- Physemops**
 nCresson, Trans. Amer. Ent. Soc. 60: 211, 1934.
- Physocephala**
 Van Duzee, Can. Ent. 63: 284, 1931.
 Van Duzee, Ann. Ent. Soc. Amer. 27: 320-321, 1934.
- Physocephala dakotensis**
 inVan Duzee, Ann. Ent. Soc. Amer. 27: 317-318, 1934.
- Physocephala lucida**
 nVan Duzee, Can. Ent. 63: 284, 1931.
- Physocephala rubida** 315-316, **ruficornis** 316-317, **stylifer** 318-319.
 inVan Duzee, Ann. Ent. Soc. Amer. 27: 1934.
- Physokermes insignicola**
 iBurke, Cal. Agr. Mo. B. 21: 364-365, 1932.
 Burke, Nat. Shade Tree Conf. P. 9: 58, 1933.
- Physoplia crassicornis**, *see* **Umbonia crassicornis**
- Physoplia nigrata**, *see* **Umbonia crassicornis**
- Phytalus smithi**
 iWolcott, Ec. Ent. of West Indies: 108-112, 1933.
- Phyto clesides**
 Aldrich, PUSNM 80(10): 3-4, 1931.
- Phytobius albertanus**
 nBrown, Can. Ent. 64: 10-12, 1932.
- Phytocoris canescens**
 Sweet, J. Ent. & Zool. 22: 81, 1930.
- Phytocoris conspicuus**
 inJohnston, Bklyn. Ent. Soc. B. 25: 295-296, 1930.
- Phytocoris spp.**
 nKnight, Bklyn. Ent. Soc. B. 29: 1-16, 1934.
- Phytometrinae**
 Watson, J. N.Y. Ent. Soc. 40: 438, '32.
- Phytomyptera nigrina**
 iGreene, P. Ent. Soc. Wash. 36: 30, '34.
- Phytomyza aquilegiae** (Hardy) (Columbine leaf miner)*
 bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 40, 1931.
 Britton, Conn. B. 344: 98, 1933.
 iChambers & Thompson, Wis. Dept. Agr. B. 145: 72, 1933.
 inFrost, Ann. Ent. Soc. Amer. 23: 459-460, 1930.
- Phytomyza chrysanthemi** (Kowarz) (Chrysanthemum leaf miner)*
 bBentley & Bartlett, Tenn. Pl. Dis. Control. B. 57: 39, 1931.
 Haseman & Jones, Missouri B. 342: 24-25, 1934.
 McDaniel, Mich. Sp. B. 214: 86-87, 1931.
- Phytomyza dura**
 nCurran, Amer. Mus. Nov. 492: 10-11, 1931.
- Phytomyza ilicicola** Loew (Holly leaf miner)*
 Downes, B.C. Ent. Soc. P. 28: 25-27, 1931.
 iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 26, 1934.
- Phytomyza ilicis**, *see* **Phytomyza ilicicola**
- Phytomyza minuscula**
 iFrost, Ann. Ent. Soc. Amer. 23: 457, 459, 1930.
- Phytomyza mitis**
 nCurran, Can. Ent. 63: 97-98, 1931.
- Phytonomus**, *see* **Hypera**
- †**Phytophaga destructor** (Hessian fly)*
 Boyd, Hist. Penn. Hort. Soc. 1827-1927: 25, 1929.
 Britton, Conn. B. 344: 176, 1933.
 Burr, Neb. R. 46: 19-20, 1933; R. 47: 18, 1934.
 Call, Kans. Bien. R. 5: 105-106, 1930.
 Cartwright et al, Cal. Agr. Mo. B. 22: 156, 1933.
 Davis, Ind. Acad. Sci. P. 39: 293, 1930; P. 43: 195-196, 1933.
 iDoane, Common Pests: 229-231, 1931.
 biDrake & Decker, Ann. Ent. Soc. Amer. 25: 345-349, 1932.
 Essig, Hist. of Ent.: 214-216, 1931.
 iFlint & Metcalf, Insects Man's Chief Competitors: 106-111, 1932.
 Grimes, Kans. Bien. R. 7: 101-102, '34.
 iHaseman, J. Ec. Ent. 23: 316-321, 1930; 24: 417-419, 1931.
 Haseman, Mo. B. 340: 48-49, '34.

†Phytophaga destructor *Cont'd*

- Larrimer, USDA Off. Rec. 11: 200, '32.
 Marlatt, USDA Ent. R. f. 1931: 31;
 R. f. 1932: 14; R. f. 1933: 16.
 biMex. Agr. & Fomento. Principales
 Plagas: 69-70, 1930.
 Mumford, Ill. R. 46: 143, 1933.
 Noble, J. Agr. Res. 42: 589-592, 1931.
 Painter, J. Ec. Ent. 23: 322-328, 1930.
 iParks, Ohio Bi-Mo. B. 146: 154-156,
 1930; B. 158: 168-172, 1932; B. 19
 (170): 171-174, 1934.
 biRockwood & Reeher, USDA TB 361,
 1933, 24p.
 iSanderson, Ins. Pests Farm. ed. 3: 144-
 149, 1931.
 iSchollander, Nat. Underwriter 35(16),
 Hail & Tornado Insur. Insert. ix,
 1931.
 Skinner & Coleman, Ind. Ext. R. 21:
 45, 1932; R. 22: 50-51, 1933.
 iSkinner & Reed, Ind. R. 42: 39-41,
 1929; R. 45: 38, 1931.
 Smith, Iowa Agr. 32: 7, 18, 1931.
 iSmith, J. Kans. Ent. Soc. 5: 83-84,
 1932; 7: 47-48, 1934.
 Smith, Ann. Ent. Soc. Amer. 26: 512,
 1933.
 Strayer, Iowa Agr. 31: 73, 77, 1930.
 Twinn, Ent. Soc. Ont. R. 65: 115, 1934.
 iWalton, USDA FB 835, rev.: 1-4, 1931.
 iWalton & Packard, USDA FB 1627,
 1930, 14p.
Phytophaga destructor—Bibliography
 Wade, USDA Misc. Pub. 198, 1934,
 100p.
Phytophaga destructor—Losses from
 Md. Ext. News 15(4): 2, 1930.
Phytophaga destructor—Parasites
 biGahan, USDA Misc. Pub. 174, 1933,
 147p.
Phytophaga destructor—Resistant wheat
 Haseman & Johnson, Mo. B. 300: 70,
 1931; B. 310: 32, 1932; B. 328: 29,
 1933.
 biPainter, et al, Kans. TB 27, 1931, 58p.
**Phytophaga destructor—Safe seeding
 dates**
 iHouser, Ohio Bi-Mo. B. 152: 163-166,
 1931.
 Mumford, Ill. R. 42: 141, 1929; R. 45:
 131-132, 1932.

Phytophagous insects

- Muesebeck, P. Ent. Soc. Wash. 34:
 109-112, 1932.
 Neiswander, Ohio B. 473: 14-18, 1931.
Phytoptus thujae
 Pettit, Mich. Ent. R. f. 1930: 11-12.
 Pettit, Mich. St. Bd. Agr. R. 69: 213-
 214, 1930.
Piano insects
 Turner & Townsend, Conn. B. 360:
 479-480, 1934.
***Pickleworm, see Diaphania nitidalis**
Pidonia quadrata
 nHopping, Can. Ent. 63: 233-234, 1931.
Pieridae
 Klots, Ent. News 42: 253-256, 1931.
 iKlots, Ent. Amer. n.s. 12: 139-242, '32.
Pieris monusta
 Holland, Bklyn. Ent. Soc. B. 25: 133-
 136, 1930.
**†Pieris rapae (L.) (Imported cabbage
 worm)***
 Britton, Conn. B. 344: 90, 1933.
 iCaesar, Ont. Dept. Agr. B. 359: 32-34,
 1931.
 Caffrey, Md. Agr. Soc. R. 19: 274, 1934.
 Christensen, Wis. B. 428: 104-106, '34.
 iCompton, Ill. C. 391: 4-5, 1932.
 Crosby & Chupp, N.Y. (C.) Ext. B.
 206 rev.: 17-18, 1933; B. 278: 17, '34.
 Doane, Common Pests: 211-212, 1931.
 iDustan, Can. Dept. Agr. Ent. B. 32:
 41-43, 1932.
 Friend, N.H. Hort. Soc. R. Meet.
 Manchester Dec. 8, 1932: 71-72.
 iGilbert & Popenoe, USDA FB 1371
 rev.: 17-18, 1930; 1371 rev.: 16-17,
 1934.
 Howard, Fighting the Insects . . . 7,
 1933.
 Hutson, Mich. R. 47: 219, 1934.
 biMex. Agr. & Fomento. Principales
 Plagas: 190, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.:
 41-42, 1933.
 Parks, Ohio Veg. Grow. Assoc. R. 16:
 163-164, 1931.
 Pearson, La Hacienda 26: 462, 1931.
 iPettit, Mich. Ext. B. 117: 7, 1931.
 Richardson, Iowa R. f. 1934: 96-97.
 Roney, Tex. R. 47: 51, 1934.

- iSanderson, Ins. Pests Farm ed. 3: 205-208, 1931.
- iSaunders, N.Y. St. Mus. Hdbk. 13: 216-221, 1932.
- Smith, J. Kans. Ent. Soc. 5: 73-74, '32.
- Stoutamire, Fla. Dept. Agr. B. n.s. 44: 16, 1930.
- Swingle, J. Ec. Ent. 27: 1101-1102, '34.
- Twinn, Ent. Soc. Ont. R. 64: 66, 1933; R. 65: 115, 1934.
- iWatson, Fla. B. 232: 38-39, 1931.
- Webster, Wash. Ext. B. 186: 2-3, 1934.
- Pieris rapae—Derris**
Huckett, Farm. Res. 1(1): 4-7, 1934.
Huckett, J. Ec. Ent. 27: 440-445, 1934.
- Pieris rapae—Lead arsenate**
Brooks & McDowell, Tex. C. 70: 6, '34.
- iHerrick, N.Y. Dept. Agr. & Markets B. 249: 60-61, 1930.
- Watson, Fla. Grow. 39(6): 22, 1931.
- Pieris rapae—Pyrethrum**
iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 9-10, 1934.
- Pieris rapae—Pyrethrum—Sulphur**
Clark, Tex. R. 47: 239, 1934.
- Pieris rapae—Rotenone**
iChristensen, Wis. B. 428: 104-106, '34.
- *Pigeon fly, *see* *Pseudolynchia maura*
- Pigeon pea insects**
iKrauss, Hawaii B. 64: 39-41, 1932.
- *Pigeon tremex, *see* *Tremex columba* (L.)
- Pigmeophorus americanus**
Davis, P. Ent. Soc. Wash. 36: 269, '34.
- Pigmy grouse locust, see** *Paratettix cucullatus*
- Pigritia—Key**
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 111, 1930.
- Pilica**
nCurran, Amer. Mus. Nov. 487: 20-21, 1931.
- Pilocrocis granjae**
nHoffmann, Mex. Univ. Nac. Inst. Biol. Anal. 5: 205-206, 1934.
- Pileliaphiles sp.**
Garman, Conn. B. 327: 575, 1931.
- Pimpla pyraustae**
Cartwright, USDA C. 289: 3, 1933.
- "Pin worm," *see* *Scenopinus fenestralis* larva.
- Pine bark louse, see** *Adelges pinicorticis*
- Pine beetles**
Marlatt, USDA Ent. R. f. 1931: 59. Amer. For. 36: 122, 1930.
- Pine bud moth, see** *Exoteleia dodecella*
- Pine insects**
iArrivee, Amer. For. 36: 71-73, 1930.
Burke, Pan-Pac. Ent. 6: 147, 1930.
- biEasterling, Ohio J. Sci. 34: 128-146, 1934.
Felt, J. Ec. Ent. 26: 994-995, 1933.
- iFriend, Conn. B. 360: 482-483, 1934.
- bFriend, Ent. Soc. Ont. R. 65: 50-54, '34.
- bFriend & West. J. Ec. Ent. 27: 334-336, 1934.
- iHastings, Outdoor Amer. 10(5): 17-19, 1931.
- Heinrich, P. Ent. Soc. Wash. 33: 196-197, 1931.
- Heisley, USDA Misc. Pub. 162: 23, '33.
- iHosmer, Amer. For. 36: 716-717, 739-740, 1930.
- bKnull, J. Ec. Ent. 27: 718, 1934.
- Orr, Minn. R. 41: 58-59, 1934.
- Orr & Hall, J. Ec. Ent. 24: 1087-1089, 1931.
- Sheppard, Ent. Soc. Ont. R. 63: 58-61, 1932.
- Pine leaf tortoise, see** *Toumeyella numismaticum*
- *Pine needle scale, *see* *Chionaspis pini-foliae* (Fitch)
- Pine processionary, see** *Thaumtopoea pityocampe*
- Pine sawfly, see** *Diprion simile*
- Pine sawyer, see** *Ergates spiculatus*
- Pine spittle bug, see** *Aphrophora parallelia*
- Pine tip beetle, see** *Pityophthorus pulicarius*
- Pine tip moth, see** *Rhyacionia frustrana*
- Pine tortoise scale, see** *Toumeyella numismaticum*
- Pine tree cricket, see** *Oecanthus pini*
- *Pine-tube moth, *see* *Argyrotaenia pinatubana* (Kearf.)
- Pineapple cannery waste insects**
Illingworth, Hawaiian Ent. Soc. P. 7: 462-465, 1931.
- "Pineapple corn" insects
Sci. News Letter, 33: 121, 1936.
- Pineapple insects**
biCarter, J. Ec. Ent. 24: 1233-1242, 1931; 25: 1027-1030, 1932.

Pineapple insects *Cont'd*

Carter, Mid-Pac. Mag. 42: 328-329, 1931.

biCarter, Ecology 13: 296-304, 1932.

iCarter, Hawaiian Ent. Soc. P. 8: 395-397, 1934.

bHagan, J. Ec. Ent. 24: 1002-1012, '31.

Illingworth, Hawaiian Ent. Soc. P. 7: 465-467, 1931.

Ito & Carter, Hawaiian Ent. Soc. P. 8: 41-44, 1932.

iJohnson, Rev. Agr. P.R. 26: 9-11, '31.

biPhillips, Hawaiian Pineapple Prod. Coop. Assoc. B. 15: 1934, 57p.

W.C., Pineapple News, 4(7): 115-118, 1930.

bWolcott, Ec. Ent. of West Indies: 475-481, 1933.

*Pineapple mealybug, *see* *Pseudococcus brevipes* (Ckll.)

Pineapple pests

biCollins & Hagan, J. Heredity, 23: 503-511, 1932.

Pineapple News 4(11/12): 153-169, '30.

*Pineapple weevil, *see* *Metamasius ritchiei*
Pinipestis zimmermanni

Hamilton, Nat. Shade Tree Conf. P. 9: 63-64, 1933.

Pink and green aphid, *see* *Macrosiphum (Ilinoia) solanifolii*

Pink-backed cutworm, *see* *Polia meditata*

*Pink bollworm, *see* *Pectinophora gossypiella* (Saund.)

Pink cornworm, *see* *Pyroderces rileyi*

Pink mealybug, *see* *Trionymus sacchari*

Pink sugar cane mealybug, *see* *Trionymus sacchari*

Pinophilus confusus, gracilis

nFall, Can. Ent. 64: 56-57, 1932.

Piophilus casei L. (Cheese skipper)*

McDaniel, Mich. C. B. 144: 12-13, '32.

bMatheson, Med. Ent.: 401, 1932.

iRiley & Johannsen, Med. Ent.: 378, '32.

Pipe-organ wasp, *see* *Trypoxylon politum*

Pipevine swallowtail, *see* *Papilio philenor*
Pipunculidae

Knowlton, Fla. Ent. 17: 34, 1933.

Pipunculus subvirescens

Knowlton & Bowen, Utah Acad. Sci. P. 7: 75, 1930.

Pipunculus vagabundus

Severin, Hilgardia 7: 340, 1933.

Pissodes approximatus

bEasterling, Ohio J. Sci. 34: 135, 1934.

Pissodes dubius

Balch, For. Chron. 7: 67-68, 1931.

Pissodes nemorensis* (Deodar weevil)

Bentley, Tenn. Bien. R. f. 29/30: 106.

Dietrich, J. Ec. Ent. 24: 872-874, 1931.

Pissodes rotundatus

iPettit, Mich. Ent. R. f. 1930: 14.

iPettit, Mich. St. Bd. Agr. R. 69: 216, 1930.

Pissodes strobi* (White-pine weevil)

iBailey, Cult. Conifers North Amer.: 340-341, 1933.

bBehre et al. J. For. 30: 300-304, 1932.

Britton, Conn. B. 344: 146-147, 1933.

iChambers & Thompson, Wis. Dept.

Agr. B. 123: 44, 1931; 145: 61-62, '33.

Cline & MacAloney, Mass. For. Assoc. B. 152, 1931, 12p.

iCline & MacAloney, Conn. For. & Park Assoc. Pub. 24, 1933, 11p.

Cope, J. For. 30: 828, 1932.

Hamilton, Nat. Shade Tree Conf. P. 9: 63-64, 1933.

Kendall, N.H. B. 250: 9-10, 1930.

MacAloney, N.Y. St. Col. For. B. 3(1), 1930, 87p.

biMacAloney, USDA C. 221, 1932, 31p.

MacAloney & Johnston, J. For. 31: 26-28, 1933.

Marlatt, USDA Ent. R. f. 1930: 49; R. f. 1931: 59.

iMaughan, Yale Univ. School For. B. 29, 1930: 37p.

Maughan, For. Leaves 23: 39-40, 1931.

Mott, N.J. Dept. Agr. C. 177, '30. 37p.

Parr, Nat. Shade Tree Conf. P. 9: 92-94, 1933.

iPeirson, Field Book of Destruct. For. Ins. ed. 2: 21, 1932.

Plumb & Hicock, J. Ec. Ent. 27: 344-345, 1934.

iPlummer & Pillsbury, N.H. B. 247, 1929, 31p.

Shaw, For. Leaves 22: 137-135, 1930.

biSoraci, N.J. Dept. Agr. C. 243: 36-37, 1934.

binSteiner, J. Agr. Res. 41: 125-130, 1930.

Taylor, J. Ec. Ent. 23: 640, 1930.

Taylor, J. For. 28: 546-551, 1930.

Violette, Me. For. Com. R. 19: 64-66, '32.

- *Pistol casebearer, *see* *Coleophora mali-vorella* Riley
- Pitch-mass borer, *see* *Parharmonia pini*
- *Pitcherplant mosquito, *see* *Wyeomyia smithii* (Coq.)
- Pitted ambrosia beetle, *see* *Corthylius punctatissimus*
- Pitted lygaeid, *see* *Geocoris punctipes*
- Pittosporum insects
Swezey, Hawaiian Ent. Soc. P. 7: 374, 1931.
- Pityogenes carinulatus*
Blackman, N.Y. St. Col. For. TB 36: 34-35, 1931.
- Pityogenes lecontei*
Knull, Ent. News 43: 66-67, 1932.
- Pityogenes punctipennis*
bEasterling, Ohio J. Sci. 34: 135, 1934.
- Pityokteines sparsus*
Prebble, Can. Ent. 65: 146-148, 1933.
- Pityophthorus aplanatus*
in Schedl, Can. Ent. 62: 195-196, 1930.
- Pityophthorus carmeli*
Burke, Cal. Agr. Mo. B. 21: 366, 1932.
- Pityophthorus pilifer, pygmaeus*
nSchedl, Can. Ent. 63: 165-168, 1931.
- Pityophthorus pulicarius*
Felt, J. Ec. Ent. 26: 994-995, 1933.
Knull, Ent. News 43: 66, 212, 1932.
- Pityophthorus smithi*
iSchedl, Can. Ent. 63: 163, 165, 1931.
- Pityophthorus variana, watsoni*
nSchedl, Can. Ent. 62: 196-199, 1930.
- Plaesus javanus*
Catoni, P.R. Com. Agr. y Trabajo Inf. Ann. 1929/1930: 181.
Garcia, P.R. Ins. R. f. 1929-30: 37, '31.
- Plagioblatta cockerelli*
in Carpenter, Carnegie Mus. Ann. 22: 333, 1934.
- Plagiodera versicolora*
Britton, Conn. B. 344: 177, 1933.
Felt, Nat. Shade Tree Conf. P. 7: 66-73, 1931.
Felt, Sci. Month. 35: 61, 1932.
Felt, J. Ec. Ent. 26: 47, 1933.
Felt & Bromley, J. Ec. Ent. 25: 42, '32.
Jones, J. Ec. Ent. 26: 513, 1933.
biSoraci, N.J. Dept. Agr. C. 243: 31-32, 1934.
- Plagiognathus repetitus*
Franklin, Mass. B. 271: 249, 1931.
- Plagiolepis mactavishi*
Ehrhorn, Hawaiian Ent. Soc. P. 7: 393-394, 1931.
Phillips, Hawaiian Pineapple Prod. B. 15: 17-18, 1934.
- Plagionotus speciosus*
iBade, Gard. Chron. Amer. 37: 314, '33.
Claiborne, Man. of Gard. 160, 1932.
- Plagiopsis*
Cresson, Trans. Amer. Ent. Soc. 60: 201, 1934.
- Plagiostenopterina* spp.
nMalloch, PUSNM 78: 12-22, 1931.
- Plagiotoma pura*
nCurran, Amer. Mus. Nov. 456: 15, '31.
- Plagithmysus* spp.
Perkins, Hawaiian Ent. Soc. P. 7: 415-416, 1931: 8: 265-266, 1933.
Swezey, Hawaiian Pl. Rec. 36: 141-142, 1932.
- Swezey, Hawaiian Ent. Soc. P. 7: 368, 421, 424, 1931; P. 8: 217-266, 274, 1933.
- Plagidis intermediaria*
McDunnough, Can. Ent. 65: 124-126, 1933.
- *Plains false wireworm, *see* *Eleodes opaca*
- Plane tree scale, *see* *Stomacoccus platani*
- Planecornua*
Goding, J. N.Y. Ent. Soc. 38: 90, 1930.
- Planiceps bequaerti*
nBanks, Bklyn. Ent. Soc. B. 26: 131-132, 1931.
- Planiceps yavapai*
nBanks, Psyche 40: 1-2, 1933.
- Planophileurus*
nChapin, Ann. Ent. Soc. Amer. 25: 307, 1932.
- Plant diseases, Virus diseases, Bibliography
Jones, Phytopath. 22: 998-999, 1932.
Otero & Cook, J. Agr. P.R. 18(1/2): 1934, 410p.
- Plant lice, *see* Aphids
- Plant parasites—Seed-borne. Bibliography
Orton, W.Va. B. 245: 1931, 47p.
- Plant quarantine, *see* Quarantine—Plant
- Plant resistance to insects, *see* Insects—Resistant plants
- Platanoxus westwoodi*
iGahan, J. Wash. Acad. Sci. 21: 213-221, 1931.

Plastocerinae

Van Dyke, Cal. Acad. Sci. P. Ser. 4, 20:
452-453, 1932.

Plastocerus amplicollis

bnVan Dyke, Cal. Acad. Sci. P. Ser. 4, 20:
459, 1932.

Plathypena scabra (F.) (Green clover worm)*

Britton, Conn. B. 344: 83, 1933.

Crosby & Chupp, N.Y. C. Ext. B. 206
rev.: 33, 1933.

biFriend & Turner, Conn. B. 332: 104,
1931.

bStirrett, Ent. Soc. Ont. R. 62: 75-82,
1932.

Platoeceticus gloverii

iPlank & Cressman, Cal. Agr. Mo. B.
23: 207-209, 1934.

Platybelus brunneus

inFunkhouser, J. N.Y. Ent. Soc. 42: 339-
340, 1934.

Platybregmus, P. canadensis

nFisher, Can. Ent. 66: 275-276, 1934.

Platycampus itascus 96-97, laricis 95, laricivorus 95-96

nRohwer & Middleton, P. Ent. Soc.
Wash. 34: 1932.

Platycerus agassizi and tar

Saylor, Pan-Pac. Ent. 9: 182, 1933.

Platycheirus—Key—Females

Curran, BAMNH 61: 66-68, 1931.

Platycheirus felix, femineum

nCurran, Can. Ent. 63: 94-96, 251-252,
1931.

Platycobboldia

nTownsend, Ent. News, 45: 277, 1934.

Platycoccus, P. tylocephalus

binStickney, USDA TB 404: 107-116, '34.

Platycoris sp.

Siepmann, Bklyn. Ent. Soc. B. 26: 266,
1931.

Platycotis (Lophopelta) tuberculatus

iDozier, Amer. Mus. Nov. 510: 2, 1931.

Platycotis vittata

iBeamer, Ent. News 41: 330-331, 1930.

Platyderes extensa, partita

nBanks, Amer. Acad. Arts & Sci. P.
69(1): 108-109, 1934.

Platyaster error 18-22, herrickii 14-18, hiemalis 4-10

biGahan, USDA Misc. Pub. 174, 1933.

Platyaster spp.

Rockwood & Reeher, USDA TB 361:
18, 1933.

Platyaster zosine

biGahan, USDA Misc. Pub. 174: 10-14,
1933.

Platygerris asymmetricus, caeruleus

nHungerford, Bklyn. Ent. Soc. B. 27:
178-182, 1932.

Platylactista aztecus

Hebard, Trans. Amer. Ent. Soc. 58:
254, 1932.

Hebard, Ent. News 44: 234, 1933.

Platylactista micrus

inHebard, Trans. Amer. Ent. Soc. 58:
255-256, 1932.

Platylagus vanduzeei

nUsinger, Pan. Pac. Ent. 7: 129-130, '31.

Platymetopius

Ball, Can. Ent. 63: 216-228, 1931; 64:
251-255, 1932.

Platymetopius aequinocialis

nVan Duzee, Cal. Acad. Sci. P. Ser. 4,
21: 30, 1933.

Platymetopius cinctus

Oman, J. Wash. Acad. Sci. 21: 430, '31.

Platymetopius magdalenensis

biDobrosky, Boyce Thompson Inst.
Contrib. 3: 59-83, 1931.

Platymoideus

nBall, Can. Ent. 63: 219, 1931.

Ball, Can. Ent. 64: 253-254, 1932.

Platymoideus graneticus, guterranus, oviedus

nBall, Can. Ent. 63: 226-228, 1931.

Platynota stultana

Busck, P. Ent. Soc. Wash. 35: 191-192,
1933.

Hyslop, J. Ec. Ent. 27: 560, 1934.

biMcGregor, J. Ec. Ent. 27: 974-977, '34.

Platynus (Paragonum) belleri

nHatch, Pan-Pac. Ent. 9: 120-121, 1933.

Platypedia areolata, minor

bWymore, J. Ec. Ent. 27: 888, 1934.

Platypedia mohavensis rufescens

inDavis, J. N.Y. Ent. Soc. 40: 258-259,
1932.

Platypedia rufipes angustipennis

inDavis, J. N.Y. Ent. Soc. 40: 259-261,
1932.

Platyphylax

Martynov, PUSNM 79(25): 16, 1931.

- Platyptilia brachymorpha**
 Suehiro, Hawaiian Ent. Soc. P. 8: 212, 1933.
- Platyptilia carduidactyla** (Riley) (Artichoke plume moth)*
 iEssig & Hoskins, Cal. Ext. C. 87: 21, 1934.
 biHermes & Ellsworth, J. Ec. Ent. 27: 1062-1064, 1934.
- Platyptilia fragilis**
 Braun, Can. Ent. 62, 122, 1930.
- Platyptilia marmarodactyla**
 iEssig & Hoskins, Cal. Ext. C. 87: 79, 1934.
- Platyptilia punctidactyla**
 Clarke, Can. Ent. 66: 171-172, 1934.
- Platyptilia pusillodactyla** (Lantana plume moth)*
 Illingworth, Hawaiian Ent. Soc. P. 7: 253, 1929.
- Platyptilia sp.**
 iLee, Internat. Soc. Sugar Cane Tech. Cong. 4. B. 101 [P. Pl. 2]: 3-4, 1932.
- Platysamia cecropia**, *see* *Samia cecropia*
- Platysamia spp.—Hybrids**
 Sweadner, Penn. Acad. Sci. P. 5: 71-73, 1931.
 iSweadner, Ent. News, 45: 231-234, '34.
- Platysoma punctigerum**
 bStruble, Cal. Univ. Pub. Ent. 5: 108-115, 1930.
- Platystomoidea**
 Pierce, PUSNM 77(17): 1930, 34p.
- Platytes (?) aenigmatica**
 inHeinrich, PUSNM 79(13): 4-5, 1931.
- Plebeius acmon**
 Fletcher, J. Ec. Ent. 23: 770, 1930.
- Plebeius emigdionis**
 iComstock, So. Cal. Acad. Sci. B. 29: 23, 1930.
 iComstock & Dammers, So. Cal. Acad. Sci. B. 31: 92-94, 1932.
- Plebeius maricopa fenderi**
 iMacy, Ent. News 41: 1-2, 1931.
- Plebeius icarioides moroensis**
 nSternitzky, Pan-Pac. Ent. 7: 93-94, '30.
- Plebeius maricopa windi**
 nGunder, Can. Ent. 65: 173, 1933.
- Plebeius melissa**
 Calkins, Ent. News, 43: 258, 1932.
- Plebeius neurona**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 32: 79-81, 1933.
- Plebeius saepiolus insulanus**
 Dow, Bost. Soc. Nat. Hist. B. 71: 8, '34.
- Plecoptera**
 biClaassen, Plecoptera Nymphs of America, 1931: 199p.
- Plectops manca**
 inFrison, Can. Ent. 66: 25-30, 1934.
 biPayne, J. Morph. 53: 549, 1932.
 iWeed, Insect Ways: 63-66, 1930.
- Plectrops manca**
 inGreene, P. Ent. Soc. Wash. 36: 31-32, 1934.
- Plectris aliena**
 Chapin, J. Ec. Ent. 27: 721-722, 1934.
 nGahan, P. Biol. Soc. Wash. 47: 33-35, 1934.
 iSim, USDA C. 334: 12, 1934.
- Plectris plexa** (Leaf-chaffer)
 Barre, S.C. R. 46: 71, 1933.
- Plectrodera scalator** (Cottonwood borer)
 McDaniel, Mich. Sp. B. 238: 10, 1933.
- Plectrothrips bruneri, montanus**
 inWilson, Fla. Ent. 17: 16-18, 33-34, '33.
- Plegaderus nitidus**
 biStruble, Cal. Univ. Pub. Ent. 5: 115-119, 1930.
- Pleistodontes froggatti, imperialis**
 Pemberton, Hawaiian Ent. Soc. P. 8: 379, 1934.
- Pleocoma**
 Davis, P. Ent. Soc. Wash. 36: 266, '34.
 Davis, So. Cal. Acad. Sci. B. 33: 123-130, 1934.
- Pleocoma spp.**
 nDavis, P. Ent. Soc. Wash. 36: 23-25, 88-89, 1934.
 nLeach, Pan-Pac. Ent. 9: 186-187, 1933.
 nVan Dyke, Pan-Pac. Ent. 9: 183-184, 1933.
- Pleroneura, P. aldrichi, californica**
 nRoss, Ann. Ent. Soc. Amer. 25: 156-159, 1932.
- Plesiothrips andropogoni**
 inWatts, Fla. Ent. 18: 24-27, 1934.
- Pleurophorus parvulus**
 Illingworth, Hawaiian Ent. Soc. P. 7: 364, 1931.
- Pleurotropis benefica**
 Gahan, Ann. Ent. Soc. Amer. 25: 751-752, 1932.

- Pleurotropis benefica* Cont'd
biGahan, USDA Misc. Pub. 174: 131-133, 1933.
- Pleurotropis detrimetosus*
nGahan, PUSNM 77(8): 9-10, 1931.
- Pleurotropis epigonus*, see *Pleurotropis metallicus*
- Pleurotropis metallicus*
biGahan, USDA Misc. Pub. 174: 133-138, 1933.
Rockwood & Reeher, USDA TB 361: 18, 1933.
- Pleurotropis olethreutidis*
nGahan, Ann. Ent. Soc. Amer. 25: 752-753, 1932.
- Pleurotropis wilderi*
Swezey, Hawaiian Ent. Soc. P. 8: 386, 1934.
- Pliomelaena bequaerti*
in Munro, Amer. Mus. Nov. 739: 1-2, '34.
- Ploas atratula*
Van Duzee, Pan-Pac. Ent. 7: 104, 1931.
- Plocamaphis braggii, flocculosa*
iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 929-931, 1931.
- Plocamaphis terricola*
in Hottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 173-174, 1931.
- Plochionus* sp.
bClark, USDA TB 455: 25, 1934.
- Plocoscelus* spp.
nCresson, Trans. Amer. Ent. Soc. 56: 35, 332-336, 1930.
- Plodia interpunctella* (Hbn.) (Indian-meal moth)*
Back & Cotton, USDA FB 1260 rev.: 16, 1930.
Donohoe & Barnes, J. Ec. Ent. 27: 1071-1072, 1934.
Flanders, J. Ec. Ent. 27: 1197, 1934.
Gray, Ent. Soc. Ont. R. 65: 68, 1934.
Gray, Que. Soc. Prot. Pl. R. 25/26: 51, 1934.
biHamlin, Reed & Phillips, USDA TB 242: 1931, 27p.
iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 54-55, 1934.
iMcDaniel, Mich. Quar. B. 16: 171, '34.
iParks & Jones, Ohio Ext. B. 97 rev.: 4, 1933.
iSimmons, Reed & McGregor, USDA C. 157: 33-36, 1931.
- Twinn, Ent. Soc. Ont. R. 64: 80, 1933.
- Ploeopterus thoracicus*
Knull, Ent. News 43: 42-43, 1932; 45: 207, 1934.
- Ploscelus harenosus*
nCresson, Trans. Amer. Ent. Soc. 56: 333, 1930.
- **Plum curculio*, see *Conotrachelus nenuphar* (Hbst.)
- **Plum gouger*, see *Anthonomus scutellaris*
- Plum hopper*, see *Macropsis trimaculata*
- Plum insects*
Caesar, Ont. B. 356: 54-57, 1930.
Dietz, N.Y. (St.) Inst. Appl'd Agr. L.I. Control. Pests of Tree Fruits: 25, '29.
iEssig & Hoskins, Cal. Ext. C. 87: 73-75, 1934.
Essig & Keifer, Cal. Agr. Mo. B. 22: 153-155, 1933.
- biGilbertson, S.Dak. B. 288: 1934, 22p.
- Hutson, Mich. Sp. B. 244: 14-19, 1933.
- bHutson, J. Ec. Ent. 27: 365-367, 1934.
- Quaintance & Siegler, USDA FB 1666: 83-84, 1931.
- iRuggles, Minn. Hort. 61: 154-155, '33.
- Van Alstyne, N.Y. (Gen.) C. 134: 8-9, 1932.
- bWymore, J. Ec. Ent. 27: 888, 1934.
- Plum louse*, see *Hyalopterus arundinis*
- Plumiger*
nHebard, P. Acad. Nat. Sci. Phila. 81: 22-23, 1929.
- Plusia chalcites*, see *Autographa chalcites*
- Plusiocampa (Microcampa) perkinsi*
in Silvestri, Hawaiian Ent. Soc. P. 8: 519-522, 1934.
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 372, 1934.
- Plutella capparidis*
Swezey, Hawaiian Ent. Soc. P. 7: 332, 1931.
- Plutella dammersi*
in Busck, So. Cal. Acad. Sci. B. 33: 76-77, 1934.
- Plutella maculipennis* (Curt.) (Diamond-back moth)*
Britton, Conn. B. 344: 90, 1933.
iCaesar, Ont. Dept. Agr. B. 359: 36-38, 1931.
Caffrey, Md. Agr. Soc. R. 19: 273-274, 1934.
Compton, Ill. C. 391: 5-6, 1932.

- Cooley, Mont. B. 238: 12-13, 1930.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206
 rev.: 19-20, 1933; B. 278: 18, 1934.
 iDustan, Can. Dept. Agr. Ent. B. 32:
 44, 1932.
 iGibson, Can. Dept. Agr. B. n.s. 99,
 rev.: 18, 1934.
 iMcDaniel, Mich. Sp. B. 214: 82-83,
 1931.
 Strickland, Alberta Ext. B. 24: 58,
 1933.
 Twinn, Que. Soc. Prot. Pl. R. 23/24:
 152, 1932.
 Walker & Anderson, J. Ec. Ent. 27:
 388-393, 1934.
 iWatson, Fla. B. 232: 37-38, 1931.
- Pnirontis demerarae**
 inHaviland-Brindley, Zoologica 7: 140-
 142, 1931.
- Pnirontis spp.—Key**
 nBarber, Ent. Amer. n.s. 10: 172-175,
 1930.
- Pnohirmus spinifer**
 Barber, Ent. Amer. n.s. 10: 181-182,
 1930.
- Pnyxia scabiei (Potato scab gnat)**
 biGui, Ohio B. 446: 85, 1930; B. 524,
 1933, 21p.
 Gui, Ohio St. Univ. Abst. Drs. Dissert.
 9: 111-122, 1932.
 MacLeod, N.Y. (C.) R. 48: 99, 1935.
 iMacLeod & Rawlins, N.Y. (C.) B. 569:
 6-7, 1933.
 Rawlins, J. Ec. Ent. 25: 649-651, 1932.
- Poanes hobomok (The Mormon)**
 Clark, P. Ent. Soc. Wash. 32: 81, 1930.
 Saunders, N.Y. St. Mus. Hdbk. 13:
 241-242, 1932.
- Poanes massosoit hughii**
 inClark, Carnegie Mus. Ann. 21: 7-9,
 1931.
- Poanes melane**
 iComstock & Dammers, So. Cal. Acad.
 Sci. B. 30: 20-22, 1931.
- Poanes zabulon**
 Clark, P. Ent. Soc. Wash. 32: 81, 1930.
- Pocota bomboidea**
 Curran, Amer. Mus. Nov. 519: 7-8,
 1932.
- Podalonia luctuosa**
 Hicks, Pan-Pac. Ent. 8: 49-51, 1931.
- biHicks, So. Cal. Acad. Sci. B. 30: 75-82,
 1931.
- bHicks, Can. Ent. 64: 145, 1932.
 iNewcomer, Ann. Ent. Soc. Amer. 23:
 552-563, 1930.
- Podalonia violaceipennis**
 Fernald, Can. Ent. 63: 278-279, 1931.
 Hicks, Psyche 39: 150-154, 1932.
 Hicks, Pan-Pac. Ent. 9: 49-50, 1933.
- Podisus—Key**
 inBarber & Bruner, P.R. Dept. Agr. J.
 16: 277, 1932.
- Podisus lineolatus**
 Plummer & Landis, Ann. Ent. Soc.
 Amer. 25: 700-701, 1932.
- Podisus maculiventris (Say) (Spined
 soldier bug)***
 biBaker, Can. J. Res. 4: 208-209, 1931.
 iDrake, & Harris, Iowa C. 134: 5, 1932.
 Stoner, Fla. Ent. 14: 21-22, 1930.
 bWilson, Fla. Ent. 17(1): 12-13, 1933.
- Podisus modestus, placidus**
 biBaker, Can. J. Res. 4: 209-210, 1931.
- Podisus sagitta**
 Plummer & Landis, Ann. Ent. Soc.
 Amer. 25: 697-699, 1932.
- Podisus serieventris**
 biBaker, Can. J. Res. 4: 209, 1931.
 bPrebble, Can. J. Res. 1(1): 1-30, 1933.
- Podisus subferrugineus**
 inBarber & Brewer, P.R. Dept. Agr. J.
 16: 276-277, 1932.
- Podosesia fraxini (Ash borer)***
 Hamilton, Nat. Shade Tree Conf. P. 9:
 62, 1933.
 Munro & Fox, N. & S.Dak. Hort. 5:
 91-92, 1933.
 iMunro & Riddle, N.Dak. C. 42 rev.:
 14-15, 1933.
 iMissouri Bot. Gard. B. 17: 156-158,
 1930.
- Podosesia syringae (Harr.) (Lilac borer)***
 Britton, Conn. B. 344: 124, 1933.
 iChambers & Thompson, Wis. Dept.
 Agr. B. 145: 68, 1933.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.:
 55, 1934.
 Hamilton, Nat. Shade Tree Conf. P. 9:
 62, 1933.
 Hutson, Mich. R. 47: 214-215, 1934.
 McDaniel, Mich. Sp. B. 238: 33-34,
 1933.

- Podosesia syringae* *Cont'd*
 biSoraci, N.J. Dept. Agr. C. 243: 37-38, 1934.
- Poecilobrium gibsoni*
 nHopping, Can. Ent. 63: 234, 1931.
- Poecilocapsus lineatus* (F.) (Four-lined plant bug)*
 Bailey, Vt. Dept. Agr. B. 42: 15, 1934.
 Britton, Conn. B. 344: 102-103, 1933.
 Chambers & Thompson, Wis. Dept. Agr. B. 123: 21, 1931; B. 145: 28, '33.
 Crosby et al, N.Y. (C.) Ext. B. 306: 18, 1934.
 iDustan, Can. Dept. Agr. Ent. B. 32: 25-26, 1932.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 46-47, 1934.
 Haseman & Jones, Missouri B. 342: 19-20, 1934.
 iMcDaniel, Mich. Sp. B. 214: 45-47, 1931.
- Poecilocryptus* *see* *Photocryptus*
- Poecilonota cyanipes*
 Knull, Ent. News 43: 45, 1932.
- Poecilonota montanus*
 Burke, Pan-Pac. Ent. 6: 138, 1930.
- Poeciloscytus vagatus*
 nVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21: 28-29, 1933.
- Poecilotettix sanguineus*
 Hebard, Ent. News 44: 235, 1933.
- Poecilothrips biformis*
 nMoulton, Hawaiian Ent. Soc. P. 8: 501, 1934.
- Poecilothrips ornatus*
 bBailey, Pan-Pac. Ent. 7: 175-178, 1931.
 Moulton, Pan-Pac. Ent. 7: 123, 1931.
- Poethrips, P. furcatus*
 inFaure, Bklyn. Ent. Soc. B. 28: 3-5, '33.
- Pogon flavescens*
 nGoding, Amer. Mus. Nov. 421: 25-26, 1930.
- Pogonocherus spp.*
 Hopping, Pan-Pac. Ent. 7: 105-106, 1931.
 Knull, Ent. News 45: 211, 1934.
 Linsley, Pan-Pac. Ent. 7: 78-84, 1930.
 nSchaeffer, Bklyn. Ent. Soc. B. 27: 153-154, 1932.
- Pogonomyrmex*
 inOlsen, B. Mus. Comp. Zool. 77: 493-514, 1934.
- biTulloch, Psyche 37: 61-70, 1930.
- Pogonomyrmex barbatus* (F. Smith) (Red harvester ant)*
 Marlatt, USDA Ent. R. f. 1931: 30.
 iWildermuth, USDA FB 1668, 1931, 22p.
- Pogonomyrmex californicus* (Buckl.) (California harvester ant)*
 biCole, Ent. News 43: 113-115, 1932.
 biOlsen, B. Mus. Comp. Zool. 77: 504, 1934.
- Pogonomyrmex dentatus*
 inOlsen, B. Mus. Comp. Zool. 77: 505-506, 1934.
- Pogonomyrmex desertorum ferrugineus*
 inOlsen, B. Mus. Comp. Zool. 77: 506-507, 1934.
- Pogonomyrmex occidentalis*
 Blackwell, Okla. R. f. 1926-1930: 268-269.
 Cole, Ecology 13: 213-214, 1932.
 biCole, Ohio J. Sci. 32: 10-20, 133-146, 533, 1932.
 Cole, Ohio St. Univ. Abstr. Drs. Diss. 11: 101-103, 1933.
 Cole, Can. Ent. 66: 193-198, 1934.
 Cole, Ent. News 45: 100, 114-115, 169, 1934.
- Pogonomyrmex occidentalis utahensis*
 inOlsen, B. Mus. Comp. Zool. 77: 509, 1934.
- Pogonomyrmex occidentalis—Mounds*
 Cole, Ohio J. Sci. 32: 245-246, 1932.
 Cole, Can. Ent. 66: 194-198, 1934.
 Cole, Ent. News 45: 170, 1934.
 Hicks, Can. Ent. 63: 173, 1931.
- Pogonomyrmex salinus, similis, wheeleri*
 inOlsen, B. Mus. Comp. Zool. 77: 510-513, 1934.
- Poison bait, *see* Insecticides—Poison bait
- Poison bran mash, *see* Insecticides—Poison bait—Bran mash
- Poisonous insects
 bBaerg, Ann. Ent. Soc. Amer. 27: 527-532, 1934.
 Blair, Arch. Internal Med. 54: 831-843, 1934.
 bDeAsis, Amer. J. Trop. Med. 14(1): 33-34, 1934.
 Gertsch, J. N.Y. Ent. Soc. 41: 402, '33.
 biMatheson, Med. Ent.: 436-454, 1932.

- Metcalf & Flint, Fund. of Ins. Life: 19-23, 1932.
- Poisons—Economic, see Insecticides—Poisons**
- Polia detracta**
bCrumb, Bklyn. Ent. Soc. B. 27: 95, '32.
- Polia lorea**
Phipps, Maine B. 356: 170-171, 1930.
- Polia meditata**
bCrumb, Bklyn. Ent. Soc. B. 27: 92-93, 1932.
- Polia (Mamestra) oleracea**
biDeLong, Ohio J. Sci. 34: 195, 1934.
- Polia purpurissata**
bCrumb, Bklyn. Ent. Soc. B. 27: 96-97, 1932.
Phipps, Maine B. 356: 171-173, 1930.
- Polia renigera (Steph.) (Bristly cutworm)***
bCrumb, Bklyn. Ent. Soc. B. 27: 93, '32.
- Poliaenus albidus** 184-185, *batesi* 183-184, *schaefferi* 184, *vandykei grandis* 185
nLinsley, Bklyn. Ent. Soc. B. 28: 1933.
- Policocnemis, P. unguatus**
nBenjamin, So. Cal. Acad. Sci. B. 31: 30-32, 1932.
- Polidaria**
nCurran, Fam. & Genera of North Amer. Diptera: 464, 1934.
- Polistella**
Bequaert, Pan-Pac. Ent. 7: 91-93, '30.
- Polistes**
bHayward, Can. Ent. 65: 126-128, 1933.
biHayward, Utah Acad. Sci. P. 10: 139-147, 1933.
Howes, Nat. Hist. 33(1): 95, 1933.
McAtee, P. Ent. Soc. Wash. 33: 186, '31.
iRau, Bklyn. Ent. Soc. B. 26: 111-118, 1931.
bRau, Ecology 12: 690-693, 1931.
iCornell, Rur. School Leaf. 25(2): 13-14, 1931.
- Polistes—Hibernating behavior**
bRau, Ann. Ent. Soc. Amer. 23: 461-466, 1930; 24: 515-518, 1931.
- Polistes annularis**
Rau, Ann. Ent. Soc. Amer. 23: 461-466, 1930.
Rau, Can. Ent. 62: 81-82, 119-120, '30.
Rau, Bklyn. Ent. Soc. B. 26: 116-118, 1931.
- Polistes bahamensis**
nBequaert & Salt, Ann. Ent. Soc. Amer. 24: 793-797, 1931.
- Polistes canadensis**
Hayward, Ent. News 41: 224, 1930.
biHayward, Utah Acad. Sci. P. 9: 89-90, 1932.
- Polistes crinitus insulicola**
Bequaert & Salt, Ann. Ent. Soc. Amer. 24: 793, 1931.
- Polistes cubensis**
iDow, Psyche 39: 15-19, 1932.
- Polistes fuscatus**
bHayward, Ent. News 41: 223, 1930.
biHayward, Utah Acad. Sci. P. 9: 90-93, 1932; 10: 141-147, 1933.
- Polistes fuscatus aurifer**
Williams, Hawaiian Ent. Soc. P. 7: 344, 1931.
biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 243-244, '31.
- Polistes fuscatus rubiginosus**
bWilson, Fla. Ent. 17: 12, 1933.
- Polistes incertus**
iDow, Psyche 39: 12-14, 1932.
- Polistes major**
Dow, Psyche 39: 14-15, 1932.
- Polistes pallipes**
iAaron, Nature Mag. 19: 159, 1932.
iRau, Can. Ent. 62: 143-147, 1930.
iRau, Bklyn. Ent. Soc. B. 26: 111-113, 1931.
bRau, Ecology 12: 690-691, 1931.
- Polistes poeyi**
Dow, Psyche 39: 14, 1932.
- Polistes poeyi haitensis**
Bequaert & Salt, Ann. Ent. Soc. Amer. 24: 792-793, 1931.
- Polistes rubiginosus**
bO'Byrne, Can. Ent. 65: 129, 1933.
O'Byrne, Bklyn. Ent. Soc. B. 29: 72, 1934.
Rau, Ann. Ent. Soc. Amer. 23: 466, '30.
Rau, Bklyn. Ent. Soc. B. 26: 115-116, 1931.
iRau, Psyche 38: 129-144, 1931.
- Polistes spp.**
biHayward, Utah Acad. Sci. P. 9: 85-101, 1932.
- Polistes variatus**
Rau, Bklyn. Ent. Soc. B. 26: 113-115, 1931.

Polites spp.

Saunders, N.Y. St. Mus. Hdbk. 13: 246-251, 1932.

Pollen-feeding insects

Bridwell, P. Ent. Soc. Wash. 36: 262, 1934.

Pollenia rudis (F.) (Cluster fly)*

DeCoursey, Science n.s. 75: 287, 1932.
Herrick & Griswold, N.Y. (C.) Ext. B. 202, rev.: 10, 1934.

McDaniel, Mich. C. B. 144: 11-12, '32.
Parks & Jones, Ohio Ext. B. 97: 33-34, 1930.

iParks & Jones, Ohio Ext. B. 97, rev.: 28-29, 1933.

Cornell Rur. School. Leaf. 25(2): 12-13, 1931.

Ohio Wkly. P. B. 18(41), 1933.

Pollination, see Insects and pollination**Polyamia spp.**

inBeamer & Tuthill, J. Kans. Ent. Soc. 7: 9-15, 1934.

Lawson, J. Kans. Ent. Soc. 3: 41, 1930.

biOsborn, USDA C. 241: 18-21, 1932.

inTuthill, J. Kans. Ent. Soc. 3: 46-47, 1930.

Polybia occidentalis

Schwarz, J. N.Y. Ent. Soc. 39: 605, '31.
Schwarz, Amer. Mus. Nov. 471, 1931, 27p.

Polybiinae

iBequaert, Ent. Amer. n.s. 13: 87-148, 1932.

Polybiomia festiva, reinhardi

nHull, Psyche 37: 178-181, 1930.

Polycaca confertus

Borden, Cal. Agr. Mo. B. 19: 572-573, 1930.

Essig & Hoskins, Cal. Ext. C. 87: 18, 1934.

Polycaca stouti

Pemberton, Hawaiian Ent. Soc. P. 8: 384, 1934.

Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 23, 1932.

Polycesta, P. cyaneous

binChamberlin, J. N.Y. Ent. Soc. 41: 37-48, 1933.

Polycesta insulana

nFisher, P. Ent. Soc. Wash. 32: 125-126, 1930.

Polycestini

Duncan, Bklyn. Ent. Soc. B. 28: 229-232, 1933.

Polychrosis viteana (Grape berry moth)*

Brannen, Ark. B. 297: 94, 1934.

iBritton, Conn. B. 344: 111-112, 1933.

Caesar & Ross, Ent. Soc. Ont. R. 60: 18, 1930.

Crosby et al, N.Y. (C.) Ext. B. 306: 27-28, 1934.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 138-139, 1930.

Doane, Common Pests: 201, 1931.

Dozier et al, Del. B. 162: 37-41, 1929.

biDozier et al, Del. B. 176, 1932, 47p.

Eddy et al, Ky. B. 353: 234, 1934.

F.E.G., Rur. N.Y. 89: 445, 1930.

Garlock, Ent. Soc. Ont. R. 65: 108-112, 1934.

Hutson, Mich. St. Hort. Soc. R. 63: 92-93, 1934.

Marlatt, USDA Ent. R. f. 1930: 15-17.

biMex. Agr. & Fomento. Principales Plagas: 133-135, 1930.

iPettit, Mich. Sp. B. 239: 3-7, 1933.

iQuaintance & Siegler, USDA FB 1666: 84-85, 1931.

iSanderson, Ins. Pests Farm, ed. 3: 426-427, 1931.

Shoene & Wingard, Va. Fr. 22(5): 14, 16, 1934.

Stearns, Peninsula Hort. Soc. Trans. 48: 40-41, 1934.

Stearns et al, Del. B. 167: 29, 1930; B. 172: 35-36, 1931; B. 179: 36, 1932; B. 188: 31-32, 1934.

Strong, USDA Ent. R. f. 1934: 17.

Twinn, Ent. Soc. Ont. R. 64: 72, 1933.

Twinn, Ent. Soc. Ont. R. 65: 121, 1934.

Williams, Peninsula Hort. Soc. Trans. 44: 131-139, 1930.

Polycurtus spp.—Key

inCushman, PUSNM 78(14): 1931, 62p.

Polydrusus impressifrons

Cal. Agr. Mo. B. 22: 345, 1933.

Polydrusus sericeus

Britton, Conn. B. 360: 474, 1934.

Polyembryony, see Insects—Polyembryony**Polygonia spp.**

iSaunders, N.Y. St. Mus. Hdbk. 13: 99-108, 1932.

- Polygonus lividus arizonensis**
Williams & Bell, Trans. Amer. Ent. Soc. 59: 77-78, 1933.
- Polymastix melolonthae, phyllophagae**
in Travis & Becker, Iowa St. Col. J. Sci. 5: 224-225, 1931.
- Polynema eutettixi**
Knowlton & Bowen, Utah Acad. Sci. P. 7: 75, 1930.
- Polynema haitiana**
nDozier, P.R. Dept. Agr. J. 16: 85-86, 1932.
- Polynema longipes, mymaripennis**
nDozier, P. Ent. Soc. Wash. 35: 96-97, 1933.
- Polynema phaseoli**
nDozier, P.R. Dept. Agr. J. 16: 84-85, 1932.
- Polynema reduvioli**
Swezey, Hawaiian Ent. Soc. P. 8: 273, 1933.
- Polynema saga**
Swezey, Hawaiian Ent. Soc. P. 7: 340-341, 354, 1931.
- Polynema vittatipennis**
nDozier, P.R. Dept. Agr. J. 16: 83-84, 1932.
- *Polyphemus moth, see Telea polyphemus**
- Polyphylla decemlineata (Ten-lined June beetle)***
Jones & Hanson, Wash. Ext. B. 180: 10, 1933.
Twinn, Ent. Soc. Ont. R. 64: 73, 1933; R. 65: 121, 1934.
- Polyphylla hirsuta**
nVan Dyke, Pan-Pac. Ent. 9: 116, 1933.
- Polyphylla ruficollis**
iDownes, Can. Dept. Agr. Pam. 5 n.s. ed. 2: 17-18, 1931.
- Polyphylla variolosa**
iSim, USDA C. 334: 8-9, 1934.
- Polyplax**
Ferris, Ent. News 45: 85-86, 1934.
- Polyplax spinulosus and typhus fever**
biMooser & Castaneda, J. Exp. Med. 55: 307-323, 1932.
bMooser, Castaneda & Zinsser, J. Exp. Med. 54: 567-575, 1931.
- Polypsocus corruptus**
Chapman, J. N.Y. Ent. Soc. 38: 337-340, 1930.
- Polyrhachis (Myrma) labellia brunneipes**
nWheeler, Cal. Acad. Sci. P. Ser. 4, 21: 179-180, 1934.
- Polyscelis modestus**
biGahan, USDA Misc. Pub. 174: 67-70, 1933.
iHill & Smith, P. Ent. Soc. Wash. 33: 182-185, 1931.
- Polystoechotes punctatus—Egg**
iHungerford, Bklyn. Ent. Soc. B. 26: 22-23, 1931.
- *Pomace fly, see Drosophila ampelophila**
- Pomelo insects**
Weldon, Pac. Rur. Press 120: 464, 1930.
- Pomphopoea aenea**
Snapp, USDA FB 1557 rev.: 35-36, 1931.
- Pomphopoea sayi Lec. (Say's blister beetle)***
Herrick, Rur. N.Y. 92: 419, 1933.
- Pompilinus nigritus**
nBanks, Amer. Acad. Arts & Sci. P. 69(1): 96, 1934.
- Pompilus**
iStep, Bees, Wasps, Ants: 64-70, 1932.
- Ponera opaciceps**
iSmith & Haug, Ann. Ent. Soc. Amer. 24: 507-508, 1931.
- Ponera opaciceps jamaicensis**
nAguayo, Bklyn. Ent. Soc. B. 27: 216-217, 1932.
- Pontania bozemani**
Twinn, Ent. Soc. Ont. R. 64: 76, 1933.
- Pontharpinia floridana**
in Shoemaker, Amer. Mus. Nov. 598: 5-8, 1933.
- Pontia rapae, see Pieris rapae**
- †Popillia japonica (Japanese beetle)***
Bailey, Vt. Com. Agr. Bien. R. 17: 71-72, 1934.
iBaldwin, N.Y. Dept. Agr. & Markets C. 450, 1932, 22p.
Baldwin, N.Y. Dept. Agr. & Markets R. f. 1932: 77-80, 1933; R. f. 1933: 102-103, 1934.
Barre, S.C. R. 45: 65-66, 1932; 46: 69-70, 1933.
iBerly, S.C. C. 43: 20-21, 1930.
Blauvelt, N.Y. (C.) Ext. B. 296: 38-39, 1934.
Britton, Conn. Pom. Soc. P. 38: 29, '29.
iBritton, Conn. B. 344: 157, 1933.

†*Popillia japonica* Cont'd

- Britton & Johnson, Conn. B. 327: 548-553, 1931; B. 338: 558-565, 1932; B. 349: 411-415, 1933.
- Cory, Md. Agr. Soc. R. 14: 393, 1930.
- iCory, Md. Ext. Serv. Infor. Card 30, Aug. 1930.
- Cory, Md. Ext. Serv. News 16(3): 3, 1930; 18(2): 1, 1933.
- Cory & Sanders, Md. Ext. R. 15: 66, 1930.
- Davis, Bklyn. Ent. Soc. B. 25: 95, 1930.
- Dean, Kans. St. Hort. Soc. Bien. R. 41: 124-126, 1932.
- iDoane, Common pests: 132-134, 1931.
- Dunn, Amer. J. Pharm. 104: 672-673, 1932.
- Du Puy, Country Home 54(2): 35-36, 1930.
- Duryee, Mich. R. 15: 146-147, 162-181, 1930.
- Duryee, N.J. St. Dept. Agr. R. 16: 14-15, 1931.
- biEddy, J. Morph. 51: 459-465, 1931.
- Felt, Nat. Shade Tree Conf. P. 7: 66-73, 1931; 8: 77, 1932.
- Felt, Sci. Month. 35: 60, 1932.
- Felt, J. Ec. Ent. 26: 46, 1933.
- Felt & Bromley, Nat. Shade Tree Conf. P. 6: 15, 1930.
- Felt & Bromley, J. Ec. Ent. 25: 42, '32.
- iFleming, Nat. Greenkeep. 6(6): 5-7, '32.
- iFleming, Metzger & Osburn, USDA C. 317, 1934, 7p.; C. 326, 1934, 13p.
- Fox, Mich. R. 15: 147-153, 1930.
- Fox, J. Ec. Ent. 24: 212-217, 1931.
- Fox, USDA Off. Rec. 11: 209, 1932.
- Gilbert, Mass. Dept. Agr. R. f. 1929/1930: 18; R. f. 1930/1931: 15-16; R. f. 1931/1932: 17; R. f. 1932/1933: 18.
- Glenn, Ill. Dept. Agr. R. 17: 65-66, '34.
- Guyton, Penn. St. Hort. Assoc. P. 71: 138-139, 1930.
- Guyton, U.S. Golf Assoc. Green Sec. B. 11: 181, 1931.
- iHadley, Cal. Agr. Mo. B. 19: 216-219, 1930.
- Hadley, Nat. Shade Tree Conf. P. 7: 121-125, 1931.
- Hadley, J. N.Y. Ent. Soc. 40: 271, '32.
- iHadley, USDA YB f. 1932: 254-260.
- iHadley & Hawley, USDA C. 332, 1934, 22p.
- Hawkins, USDA YB f. 1934: 289.
- Hawley, J. Ec. Ent. 27: 503-505, 1934.
- Headlee, N.J. Ext. B. 137, 1934, 4p.; B. 138, 1934, 8p.
- Humphreys, Amer. Nurseryman. 51: 52, 1930.
- Huntington, Gard. Club Amer. B. Ser. 5(1): 105-108, 1933.
- iHutson, Mich. Quar. B. 15: 166-168, 1933.
- Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 200, 1930.
- Johnson, Conn. B. 360: 440-441, 1933.
- biKleinman, J. Cell. & Comp. Physiol. 4: 221-235, 1933.
- biLudwig, J. Exp. Zool. 60: 309-323, '31.
- biLudwig, Ann. Ent. Soc. Amer. 27: 429-434, 1934.
- Marlatt, USDA Ent. R. f. 1930: 3-6; R. f. 1931: 19-24; R. f. 1932: 8-9; R. f. 1933: 12-13.
- Mather, Atlantic Month. 154: 720-725, 1934.
- Metzger, J. Ec. Ent. 26: 205-210, 1933.
- iMetzger, Van der Meulen & Mell, J. Agr. Res. 49: 1001-1008, 1934.
- Murphy, Gard. Club Amer. B. Ser. 4, 7: 93, 1930.
- iO'Kane, N.H. Agr. R. f. 1931-32: 99-101.
- Osburn, J. Ec. Ent. 27: 293, 1934.
- Pomerat, J. Gen. Psychol. 7: 16-32, '32.
- iPyrke, N.Y. Dept. Agr. & Markets C. 410, 1930, 27p.
- Pyrke, N.Y. Dept. Agr. R. f. 1930: 62-65, 1931; R. f. 1931: 73-75, 1932.
- Quaintance & Siegler, USDA FB 1270: 35-37, 1931.
- iRex, N.J. Dept. Agr. C. 180, 1930, 31p.; C. 242, 1934, 34p.
- Rex, J. N.Y. Ent. Soc. 41: 404, 1933.
- iSanderson, Ins. Pests Farm ed. 3: 320-324, 1931.
- Slate, Conn. B. 322: 124, 1931; B. 357: 127, 1934.
- Smith, J. Ec. Ent. 23: 495-501, 1930.
- Stene & Horovitz, R.I. Agr. R. 6: 17-18, 1933.
- Strong, USDA PQCAR f. 1931: 26-33.

- Strong, Science n.s. 80: 552-553, 1934.
 Strong, USDA Ent. R. f. 1934: 2-3.
 Stringle, J. Agr. Res. 41: 181, 196, 1930.
 Symons, Md. Ext. R. 16: 16-17, 73-74, 1930; R. 18: 64-65, 1933.
 Symons, Univ. Md. & St. Bd. Agr. Bien. R. f. 1928/1930: 116-118; R. f. 1930/1932: 99, 1933.
 iTabor, Woman's Home Comp. 57(5): 42, 1930.
 Van Leeuwen, USDA C. 237, 1932, 14p.
 Violette, Maine For. Com. R. 19: 71, '32.
 Wallace, Ind. YB f. 1934: 600-601.
 Wallace et al., Ind. Dept. Conserv. R. 14: 55, 1932.
 Weir, Can. Min. Agr. R. f. 1931/1932: 174.
 iWeiss, N.J. St. Dept. Agr. R. 16: 158-165, 1931; R. 17: 121-131, 1932; R. 18: 113-128, 1933; R. 19: 147-155, 1934.
 Worthley & Stockwell, J. Ec. Ent. 26: 405-410, 1933.
- Popillia japonica—Baits and traps, see Popillia japonica—Traps—Bait**
- Popillia japonica—Birds**
 Bell, Bklyn. Ent. Soc. B. 25: 8, 1930.
 Winecoff, Sci. News Letter 21: 211, '32.
- Popillia japonica—Blueberries**
 Engelhardt, Bklyn. Ent. Soc. B. 26: 134, 1931.
 Headlee, Amer. Cranb. Grow. Assoc. P. 62: 18, 1931.
- Popillia japonica—Distribution**
 iFox, J. Ec. Ent. 25: 396-407, 1932.
 biFox, J. Ec. Ent. 27: 461-473, 1934.
 Hadley, J. Ec. Ent. 24: 217-218, 1931.
 iHadley & Hawley, USDA C. 332: 2-4, 1934.
- Popillia japonica—Dusting**
 iVan Leeuwen, J. Ec. Ent. 25: 1108-1110, 1932.
- Popillia japonica—Flight**
 bStichter, Penn. Acad. Sci. P. 5: 40-42, 1931.
- Popillia japonica—Growth**
 biLudwig, Ent. News 45: 141-153, 1934.
- Popillia japonica—Insecticides**
 biFleming, J. Agr. Res. 48: 115-130, '34.
- Popillia japonica—Insecticides—Barium fluosilicate**
 Metzger, J. Ec. Ent. 26: 205-210, 1933.
- Popillia japonica—Insecticides—Carbon disulphide**
 iDuryee, N.J. Dept. Agr. C. 188, 1930, 20p.
- Popillia japonica—Insecticides—Castor bean**
 Landrette, Flor. Exch. 79(18): 35, 1932.
 Metzger, J. Ec. Ent. 26: 299-300, 1933.
- Popillia japonica—Insecticides—Contact**
 Fleming, USDA C. 280, 1933, 4p.
 iFleming & Baker, J. Agr. Res. 49: 29-38, 1934.
- Popillia japonica—Insecticides—Ethylene oxide**
 Osburn, J. N.Y. Ent. Soc. 39: 567-574, 1931.
- Popillia japonica—Insecticides—Hot water**
 Fleming, USDA YB f. 1931: 413-414.
 biFleming, USDA TB 274, 1932, 41p.
 Fleming & Baker, Amer. Nurserym. 55: 206, 1932.
- Popillia japonica—Insecticides—Hydrated lime**
 USDA YB f. 1933: 35.
- Popillia japonica—Insecticides—Lead arsenate**
 Chadwick, Flor. Rev. 70(1805): 64, '32.
 Hallock, Fruits & Gardens 46(9): 12, 1930.
 Matthews, Nat. Nurserym. 42(8): 5, 1934.
 iOutdoor Ind. 1(11): 15, 25, 1934.
- Popillia japonica—Insecticides—Naphthalene**
 bFleming & Baker, USDA TB 427, 1934, 28p.
 Lipp, J. Ec. Ent. 27: 500-502, 1934.
- Popillia japonica—Insecticides—Paradichlorobenzene**
 Lipp, J. Ec. Ent. 27: 500-502, 1934.
- Popillia japonica—Insecticides—Repellents**
 iMetzger, J. Agr. Res. 40: 659-671, 1930.
 iMetzger & Grant, J. Ec. Ent. 23: 278-281, 1930.
 iMetzger & Grant, USDA TB 299, 1932, 22p.
 Osburn, J. Ec. Ent. 27: 293, 1934.
- Popillia japonica—Insecticides—Stomach poisons**
 biFleming, J. Agr. Res. 48: 115-130, '34.

- Popillia japonica—Insecticides** *Cont'd*
 iFleming & Baker, J. Agr. Res. 49: 39-44, 1934.
- Popillia japonica—Insecticides—Wild carrot**
 King & Holloway, Science 72(1878 sup): x, 1930.
 King & Holloway, Sci. News Letter 19: 79, 1931.
- Popillia japonica—Insecticides** *see also*
Popillia japonica
- Popillia japonica—Larvae**
 iFleming & Osburn, USDA C. 238, 1932, 11p.
 iHadley & Hawley, USDA C. 332: 15-16, 1934.
 Osborn, Gard. Chron. Amer. 38: 229-230, 1934.
 iSim, USDA C. 334, 1934, 20p.
 bSwingle, J. Ec. Ent. 23: 956-958, 1930.
- Popillia japonica—Parasites**
 iAllen & Burrell, J. Agr. Res. 49: 909-922, 1934.
 biBalock, J. Ec. Ent. 27: 491-496, 1934.
 bBrunson, J. Ec. Ent. 27: 514-518, 1934.
 iBurrell, J. Agr. Res. 43: 323-336, 1931.
 biClausen, Jaynes & Gardner, USDA TB 366, 1933, 59p.
 biClausen et al., USDA TB 308, 1932, 27p.
 Fullaway, Hawaii Bd. Comm. Agr. & For. Bien. R. f. 1930: 81, 1931.
 Fullaway, Hawaiian For. & Agr. 27: 127, 1930.
 Gardner, J. Ec. Ent. 27: 497-499, 1934.
 Glaser, N.J. C. 211, 1931, 34p.
 Glaser, N.J. St. Dept. Agr. R. 16: 175-180, 1931.
 iHadley & Hawley, USDA C. 332: 18-19, 1934.
 King, Mich. R. 15: 158-161, 1930.
 King, J. Ec. Ent. 24: 453-462, 1931.
 King & Holloway, J. Ec. Ent. 23: 266-274, 1930.
 iKing & Holloway, USDA C. 145, 1930, 12p.
 iMcKee, Nat. Repub. 19(10): 17, 1932.
 iRex, N.J. Dept. Agr. C. 242: 25-26, '34.
 U.S. Golf Assoc. Green Sec. B. 11: 186, 1931; B. 12: 223, 1932.
- Popillia japonica—Parasites—Nematode**
 Glaser, Science n.s. 71: 16-17, 1930; 73: 614-615, 1931.
- Glaser, J. Parasit. 18: 119, 1931.
 biGlaser, N.J. C. 211, 1932, 34p.
 Glaser & Fox, Science n.s. 71: 16-17, 1930.
 Weiss, N.J. St. Dept. Agr. R. 18: 126-128, 1933.
- Popillia japonica—Predators**
 iHadley & Hawley, USDA C. 332: 19-20, 1934.
 Sim, J. Ec. Ent. 27: 482-485, 1934.
- †Popillia japonica—Quarantine**
 Back, N.J. Dept. Agr. Bur. Stat. & Insp. C. 182: 20-47, 1930.
 Bailey, Vt. St. Comm. Agr. Bien. R. 17: 71-72, 1934.
 Baldwin, N.Y. Dept. Agr. & Markets, C. 450: 13-21, 1932.
 Britton, Conn. C. 72: 59, 1930.
 iBritton & Johnson, Conn. B. 315: 588-603, 1930.
 Brown, Costich & Van Buren, Amer. Nurserym. 55: 31, 1932.
 Dunlap, USDA PQCA Q 48, Amend. 1, rev. regs. 5-6, 1931, 4p.
 Dunlap, USDA BPQ SRA 112: 65, '32.
 Hoyt, USDA BPQ R. f. 1934: 9-18.
 Hyde, USDA YB f. 1931: 56.
 Hyde, USDA Off. Rec. 11: 32, 197, '32.
 McLaughlin, W.Va. St. Dept. Agr. Bien. R. 11: 38, 1934.
 Meehan, P. Amer. Assoc. Nurserym. 56: 143, 1931; 57: 150, 1932; 59: 92-94, 1934.
 Rex, N.J. Dept. Agr. C. 242: 31, 1934.
 iSlate, Conn. C. 74, 1931: 22p.
 Strong, USDA PQCA R. f. 1930: 24-29; R. f. 1931: 26-33; R. f. 1932: 11-16; R. f. 1933: 11-16.
 Strong, USDA PQCA SRA, 105: 134-146, 1930; 108: 101-104, 1931; 109: 137-147, 1932; 110: 10; 112: 64-65, 1932; 114: 142-143, 1933.
 Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 19, 1932.
 Weiss, N.J. St. Dept. Agr. R. 18: 122-126, 1933.
 Worthley, Ent. Soc. Ont. R. 64: 32-36, 1933.
- iWorthley, USDA YB f. 1934: 199-203.
 USDA Off. Rec. 9(40): 8, 1930; 9(41): 7, 1930; 9(46): 2, 1930; 10: 180, 303, 1931; 11: 148, 201, 1932.

- USDA PQCA SRA 100: 133, 1930.
 USDA YB f. 1931: 56.
- Popillia japonica—Reaction to spray residue**
 Van Leeuwen, USDA C. 227, 1932, 19p.
- Popillia japonica—Resistant plants**
 iMetzger & Grant, USDA TB 299, 1932, 22p.
 iMetzger, Van der Meulen & Mell, J. Agr. Res. 49: 1001-1008, 1934.
- Popillia japonica—Soil fumigation**
 Fleming & Baker, J. Ec. Ent. 23: 502-508, 1930.
- Popillia japonica—Spraying**
 Duryee, N.J. Dept. Agr. C. 176, 1931, 4p.
 N.J. Dept. Agr. C. 220, 1932, 4p.
- Popillia japonica—Traps**
 biCourtney, J. Ec. Ent. 24: 219-226, '31.
 iMartin, Pop. Sci. Month. 123(3): 40-41, 94, 1933.
 iMetzger, USDA Misc. Pub. 147, 1932, 8p.
 biMetzger, J. Ec. Ent. 27: 473-476, 1934.
 iRex, N.J. Dept. Agr. C. 222, 1932, 15p.; C. 235, 1933, 17p.; C. 242: 27-30, 1934.
 Slate, Conn. B. 337: 466, 1932.
 iVan Leeuwen, USDA C. 130, 1930, 16p.
 Van Leeuwen & Van der Meulen, J. Ec. Ent. 24: 919, 1931.
- Popillia japonica—Traps—Bait**
 Metzger, J. Ec. Ent. 26: 411-414, 1933.
 iMetzger, USDA Misc. Pub. 201, 1934, 11p.
 Richmond, N.J. Bur. Stat. C. 190, 1931, 12p.
 Van Leeuwen, USDA C. 237: 13, 1932.
- Popillia japonica—Traps—Bait—Liquid**
 iMetzger, J. Ec. Ent. 26: 411-414, 1933.
- Popillia japonica—Traps—Citronella**
 Fritsche, Flow. Grow. 20: 365, 1933.
- Popillia japonica—Traps—Coleoptera in**
 Metzger & Sim, J. Ec. Ent. 26: 296-297, 1933.
- Popillia japonica—Traps—Color**
 Midwest Fruitman 4(4): 4, 1930.
- Popillia japonica—Traps—Electrical**
 iMehrfhof, J. Ec. Ent. 23: 275-278, 1930.
 Van Leeuwen, N.J. St. Dept. Agr. R. 15: 158, 1930.
- Popillia japonica—Traps—Wire**
 Rex, J. N.Y. Ent. Soc. 39: 593-596, '31.
- Popillia japonica and cedar rust**
 Willey, Va. St. Hort. Soc. P. 38: 58-63, 1934.
- Popillia japonica and soil acidity**
 bSwingle, Ann. Ent. Soc. Amer. 24: 496-502, 1931.
- Popillia japonica and temperature**
 biLudwig, Physiol. Zool. 3: 291-296, 1930; 5: 431-447, 1932.
- *Poplar and willow borer, see Cryptorhynchus lapathi**
- *Poplar borer, see Saperda calcarata**
- Poplar insects**
 Miller, Can. Ent. 65: 3-5, 1933.
- Poplar tent maker, see Melalopha inclusa**
- Poppea bulbidorsa**
 nGoding, Amer. Mus. Nov. 421: 17, '30.
- Poppea nitida, zebrina**
 inFunkhouser, J. N.Y. Ent. Soc. 38: 416-417, 1930.
- Porcellio laevis**
 Thompson, Ent. Soc. Ont. R. 62: 87-89, 1932.
- Porcellionides bermudezi**
 inBoone, BAMNH 66: 572-574, 1934.
- Porcupine insects**
 bJellison, Amer. Micro. Soc. Trans. 52(1): 42, 1933.
- Poroblatta pluto**
 inRehn, Trans. Amer. Ent. Soc. 56: 60-62, 1930.
- Porosagrotis orthogonia, see Agrotis orthogonia**
- Porosagrotis vetusta, see Agrotis vetusta**
- Porricondyla gossypii (Red maggot)**
 Wolcott, Ec. Ent. of West Indies: 268, 1933.
- Portanus**
 nBall, J. Wash. Acad. Sci. 22: 18, 1932.
- †Porthetria dispar (L.) (Gypsy moth)***
 Ashworth & Britton, Conn. B. 315: 529, 543, 1930.
 iAshworth & Britton, Conn. B. 338: 542-553, 1932; B. 360: 426-433, '34.
 Bailey, Vt. Com. Agr. Bien. R. 15: 32, 1930; R. 17: 66-67, 1934.
 iBailey, Cult. Conifers North Amer.: 339-340, 1933.
 Berly, S.C. C. 43: 25, 1930.
 Britton, Conn. C. 73: 5-6, 1931.

Porthetria dispar* (L.) *Cont'd

- iBritton, Conn. B. 344: 74-75, 1933.
 iBritton & Ashworth, Conn. B. 327: 501-518, 1931; B. 349: 400-407, '33.
 iBurgess, Cal. Agr. Mo. B. 19: 262-265, 1930.
 iBurgess, J. Ec. Ent. 23: 718-725, 1930; 24: 518-525, 1931; 25: 393-396, 1932; 26: 598-603, 1933; 27: 585-589, 1934.
 Burgess, Mass. Comm. Conserv. & St. For. R. f. 1930: 24-25; R. f. 1931: 25; R. f. 1932: 27.
 iBurgess, USDA FB 1623: 1-23, 1930.
 Burgess, Nat. Shade Tree Conf. P. 7: 126-128, 1931; P. 8: 70-76, 1932; P. 10: 26-30, 1934.
 iBurgess, USDA YB f. 1932: 239-244; YB f. 1934: 242-244.
 iCollins, USDA C. 204, 1931, 8p.
 biCollins & Baler, J. Ec. Ent. 27: 320-327, 1934.
 iDoane, Common Pests: 254-255, 1931.
 Dunn, Amer. J. Pharm. 104: 674-675, 1932.
 Duryee, N. J. St. Dept. Agr. R. 15: 181-182, 1930.
 Duryee, N.J. St. Dept. Agr. R. 16: 15, 1931.
 Felt, J. Ec. Ent. 26: 47, 1933.
 iFriend & Turner, Conn. B. 315: 543-563, 1930.
 Hood, USDA C. 235, 1932, 12p.
 Howard, Hist. of Appl'd Ent.: 115-119, 1930.
 iKnull, For. Leaves 23: 154-157, 1933.
 iMacDonald, N.Y. St. Conserv. Dept. R. 19: 140-161, 1930; R. 20: 52, 154-171, 1930.
 McLaine, J. Ec. Ent. 23: 38-41, 1930.
 Marlatt, USDA Ent. R. f. 1930: 51-54; R. f. 1931: 61-63; R. f. 1933: 30-32.
 Mateos, Agr. Mex. 1: 193-196, 1934.
 iMorgenthau, N.Y. St. Conserv. Dept. R. 21: 134-142, 1932; R. 22: 111-123, 1933.
 O'Kane, N.H. Agr. R. f. 1931/1932: 107-113.
 iOsborne, N.Y. Conserv. Dept. R. 23: 93-101, 1934.
 Potter et al., N.H. Ext. B. 47: 42, 1934.
 iQuaintance & Siegler, USDA FB 1270 rev.: 48-49, 1931.
 iSanderson, Ins. Pests Farm, ed. 3: 312-315, 1931.
 Slate, Conn. B. 322: 123-124, 1931; B. 337: 467, 1932; B. 357: 126, 1934.
 Smith, Mass. Comm. Conserv. & St. For. R. f. 1932: 24-26.
 Stene & Horovitz, R.I. Agr. R. 6: 19-20, 1933.
 Strong, USDA PQCA R. f. 1930: 11-18; R. f. 1931: 9-16; R. f. 1933: 1-4.
 Strong, USDA PQCA Q 45 rev. 1931, 8p.
 Strong, USDA Ent. R. f. 1934: 6-7.
 iWeiss, N.J. St. Bur. Stat. & Insp. C. 189: 3-9, 1930.
 Weiss, N.J. Dept. Agr. C. 208, 1931, 7p.
 Weiss, N.J. St. Dept. Agr. R. 16: 157, 1931; R. 17: 118-120, 1932; R. 18: 110-113, 1933; R. 19: 142-146, 1934.
 Whitney, Hawaiian Ent. Soc. P. 7: 379, 381, 1931.
 USDA YB f. 1932: 72; YB f. 1933: 79.
***Porthetria dispar*—Enemies**
 Collins, Mass. Comm. Conserv. & St. For. R. f. 1930: 25; R. f. 1931: 25-26; R. f. 1932: 27-28.
***Porthetria dispar*—Intersexuality**
 bGoldschmidt, Quart. Rev. Biol. 6: 125-142, 1931.
***Porthetria dispar*—Parasites**
 Burgess, USDA FB 1623: 15-16, 1930.
 Collins, Nat. Shade Tree Conf. P. 7: 129-131, 1931.
 Collins & Jones, USDA YB f. 1932: 236-239.
 biDowden, J. Agr. Res. 46: 963-995, 1933; 48: 97-114, 1934.
 biMuesebeck, J. Agr. Res. 43: 445-460, 1931.
 biMuesebeck & Parker, J. Agr. Res. 46: 335-347, 1933.
 biParker, J. Agr. Res. 46: 23-34, 1933.
 bSchaffner, Ann. Ent. Soc. Amer. 27: 585-592, 1934.
 bSmith, Ann. Ent. Soc. Amer. 26: 526-528, 1933.
 Strickland, Sci. Month. 39: 262-263, 1934.
 iWebber, J. Agr. Res. 45: 193-208, 1932.

Porthetria dispar—Quarantine

- Britton, Conn. C. 72: 56-57, 1930.
 Britton, Conn. C. 85: 36-37, 1932.
 Hoyt, USDA PQ R. f. 1934: 2-9.
 Strong, USDA PQCA R. f. 1930: 11-18; R. f. 1931: 8-16; R. f. 1932: 1-5.
 Strong, USDA BPQ R. f. 1933: 1-6.
 J. Ec. Ent. 26: 520, 1933; 27: 553, 1934, 1934.

Porthetria dispar—Spread

- biCollins & Baker, J. Ec. Ent. 27: 320-327, 1934.

Porthetria dispar—Traps—Attractants

- Collins & Potts, J. Ec. Ent. 24: 561-562, 1931.
 iCollins & Potts, USDA TB 336, 1932, 44p.

Postage stamp—Venezuela—Sciara wing

- Curran, J. N.Y. Ent. Soc. 42: 363, 1934.

Potamobates williamsi

- nHungerford, Blyn. Ent. Soc. B. 27: 228-230, 1932.

Potanthus maracanae

- inBell, Amer. Mus. Nov. 745: 4-6, 1934.

Potato aphid, see Macrosiphum (Illinoia) solanifolii**Potato flea beetle, see Epitrix cucumeris****Potato gnats, see Pnyxia scabei, Sciara sp.****†Potato insects**

- Bailey, Vt. Dept. Agr. B. 42: 11-15, 1934.
 iBaribeau, Que. Min. de l'Agr. B. 110: 52-56, 1932.
 Barrus & Crosby, N.Y. (C.) Ext. B. 238, 1932, 29p.
 [Betten], N.Y. (C.) R. 45: 117, 1932.
 • Bourne, Mass. Ext. Leaf. 20 rev.: 23-24, 1933.
 Buchanan & Stevenson, Iowa R. f. 1933: 73-74.
 iCaesar, Ont. Dept. Agr. B. 359: 57-64, 1931.
 iCompton, Ill. C. 391: 13-18, 1932.
 Crosthwait, Peninsula Hort. Soc. Trans. 46: 18-19, 1932.
 biDaniels, Col. B. 400, 1933, 34p.
 Drake, Iowa Agr. Res. R. f. 1932: 59.
 Dye, Ont. Veg. Grow. Assoc. P. f. 1932: 18-19, 1933.
 Ford et al., Col. Ext. B. 45: 16-18, 1934.
 iGarcia, N.Mex. R. 43: 48-49, 1932;

- R. 44: 40, 1934; R. 45: 37-39, 1934.
 Gardner, Veg. Grow. Assoc. Amer. R. f. 1931: 152.

- iGilbert & Popenoe, USDA FB 1371 rev.: 34, 1934.

- Gui, Ohio Veg. Grow. Assoc. P. 18: 66-72, 1933.

- Hanson, W. Wash. Hort. Assoc. P. 25: 21-24, 1934.

- iHaseman, Mo. Ext. C. 257, 1930, 4p.

- Hawkins, Maine B. 377: 354-356, 1934.

- Hedrick, N.Y. (Gen.) R. 49: 70-71, 1930; R. 50: 64-65, 1931; R. 51: 73, 1932; R. 53: 50, 1934.

- iHuckett, N.Y. (Gen.) C. 128: 1932, 7p.
 Knowlton, Utah Acad. Sci. P. 10: 153, 1933.

- Ladd, N.Y. (Gen.) R. 52: 71, 1933.

- Langford, Peninsula Hort. Soc. Trans. f. 1931: 76-77.

- Leonard, P.R. Ins. R. f. 1929-30: 118-119, 1931.

- MacLeod, N.Y. (C.) R. 44, Pt. 2: 49, 1931.

- MacLeod, Amer. Potato J. 11: 61-65, 1934.

- MacLeod & Butcher, J. Ec. Ent. 27: 106-108, 1934.

- iMacLeod & Rawlins, N.Y. (C.) B. 569, 1933, 14p.

- iMetzger, Col. B. 412: 79-88, 1934.

- iMoore & Wheeler, Mich. Sp. B. 234: 18-20, 1933.

- Pelton, Tenn. Ext. Pub. 182, 1933. [4p.]

- biPieper, Burlison & Flint, Ill. B. 344: 271-283, 1930.

- iPrince, N.S. Dept. Nat. Res. B. 14, 1930, 20p.

- Skinner & Reed, Ind. R. 45: 35, 1932.

- Tate, J. Ec. Ent. 26: 1173, 1933.

- iWard et al., Ind. Ext. B. 89, ed. 4 rev.: 17-21, 1933.

- Webster, J. Ec. Ent. 25: 976-980, 1932.

- Wilkinson, Conn. (Storrs) Ext. B. 196: 28-29, 1933.

- Wolcott, J. Ec. Ent. 23: 643-644, 1930.

Potato leafhopper, see Empoasca fabae*Potato maggot, see Hylemya trichodactyla Rond.****Potato pin worm, see Gnorimoschema lycopersicella****Potato psyllid, see Paratrioza cockerelli**

- Potato scab gnat, *see* *Pnyxia scabiei*
- *Potato stalk borer, *see* *Trichobaris trinitata* (Say)
- *Potato stem borer, *see* *Hydroecia micacea* (Esp.)
- *Potato tuber worm, *see* *Gnorimoschema operculella* (Zell.)
- Potato weevil, *see* *Epicaerus cognatus*
- Potosia affinis
i Ting, Cal. Agr. Mo. B. 23: 185-191, 1934.
- Potter wasps, *see* *Eumeninae*
- Poultry—Insect food
Phillips & Dicke, North Virginian 4(2): 41, 1932.
- *Poultry bug, *see* *Haematosiphon inodorus*
- Poultry insects
Bishopp & Wagner, J. Ec. Ent. 24: 56-62, 1931.
i Bishopp & Wood, USDA FB 801 rev., 1931, 20p.
Buckley & Bunyea, USDA FB 1652 rev.: 67, 1933.
Buckley et al., USDA FB 1652, 1931, 62p.
b Gibson, Sci. Agr. 11: 208-220, 1930.
Glover, Ont. Vet. Col. R. f. 1930: 77-78, 1931.
Gooding, S.C. Wkly. News Notes 19(27): 1, 1931.
Hoffman, Cal. Agr. Mo. B. 22: 238-239, 1933.
i Lamon & Kinghorne, Pract. Poultry Prod. rev.: 325-334, 1930.
i Lewis, Productive Poultry Husbandry ed. 8 rev.: 507-510, 1933.
Marlatt, USDA Ent. R. f. 1931: 76.
Mohler, USDA YB f. 1933: 238.
Newsom, Col. Ext. C. 86-A, 1934, [4p.]
Paredes, Rev. Unidas 49(1): 46, 1933.
Regenos, Allied Vet. 2(4): 8-9, 1931; 2(7): 4-5, 1931.
i Rice & Botsford, Pract. Poultry Manag.: 238-243, 1933.
i Sanderson, Ins. Pests Farm, ed. 3: 522-529, 1931.
Stevenson, Ont. Dept. Agr. B. 363, 1931, 17p.
i Van Es & Olney, Neb. B. 290: 100-110, 1934.
Va. Poly. Ext. Div. News 12(9): 7, 1930.
- Poultry lice
Bishopp, USDA YB f. 1932: 310.
i Bishopp & Wood, USDA FB 801 rev., 1931, 20p.
Buckley, USDA FB 1652: 54-55, 1931.
Marcovitch, Tenn. Ext. Pub. 177, 1933, 2p.
- Poultry lice—Nicotine sulphate
Lee, Profit. Poultry Manag. ed. 6: 129-130, 1933.
Cal. Cult. 79: 363, 1932.
- Poultry lice—Sodium fluoride
i Bishopp, USDA YB f. 1932: 309-310.
- Powder-post beetles, *see* *Lyctus* spp.
- Praealta—Key
Ball, Ent. Amer. n.s. 12: 30-31, 1931.
- Praepharnus, *P. prominulus*
in Barber & Bruner, P.R. Dept. Agr. J. 16: 266-268, 1932.
- Praeschausia
n Benjamin, Pan-Pac. Ent. 8: 57, 1931.
- Pragmatiphila truncata
b Leonard, Rev. Agr. P.R. 25: 93, 1930.
- *Prairie grain wireworm *see* *Ludius aereipennis* (Kby.)
- Praying mantis *see* *Mantis religiosa*
- Prenes errans
i Comstock, So. Cal. Acad. Sci. B. 29: 139-141, 1930.
- Prenes nero
Holloway, Facts about Sugar 28(5): 217, 1933.
- Prenes vala immaculata
Bell, J. N.Y. Ent. Soc. 38: 457-458, '30.
- Prenolepis (Nylanderis) bourbonica
Smith, Fla. Ent. 14: 23-24, 1930.
Williams, Hawaiian Ent. Soc. P. 7: 425-426, 1931.
- Prenolepis gibberosa
Aguayo, Bklyn. Ent. Soc. B. 27: 224, '32.
- Prenolepis imparis
Bentley & Rogers, Tenn. Pl. Dis. Control. B. 40: 13-14, 1931.
Rau, Acad. Sci. St. Louis Trans. 28: 214, 1934.
bi Wheeler, Ann. Ent. Soc. Amer. 23: 1-24, 1930.
Wright, Cal. Agr. Mo. B. 19: 589-590, 1930.
- Prenolepis imparis pumila
b Wheeler, Ann. Ent. Soc. Amer. 23: 21-24, 1930.

- Prenolepis longicornis (Latr.) (Crazy ant)***
 Illingworth, Hawaiian Ent. Soc. P. 7: 378, 1931.
 Pemberton, Hawaiian Ent. Soc. P. 8: 509, 1934.
- Prepodes (Exophthalmodes) roseipes**
 Wolcott, J. Ec. Ent. 26: 1172-1173, '33.
- Prescottia, P. brickellia**
 nBall, J. Wash. Acad. Sci. 22: 16-17, '32.
- Preuthera**
 nTownsend, J. N.Y. Ent. Soc. 40: 452, 1932.
- Prickly pear—Biological control**
 Rawson, Sci. Amer. 144: 392-393, 1931.
- Primavera, see Protoparce sexta**
- Prioncemis spp.**
 nBanks, Psyche 40: 10-16, 1933.
 nBanks, Amer. Acad. Arts Sci. P. 69(1): 34-39, 1934.
 nBrimley, Ent. News 45: 43, 1934.
 Rau, Psyche 41: 241-242, 1934.
- Prionomerus abdominalis**
 Frost, Ann. Ent. Soc. Amer. 24: 396-397, 1931.
- Priononyx sp.**
 iWeed, Insect Ways: 156-159, 1930.
- Prionoxystus robiniae (Peck) (Carpenter worm)***
 Britton, Conn. B. 344: 126, 1933.
 Burke, Nat. Shade Tree Conf. P. 9: 52, 1933.
 Hamilton, Nat. Shade Tree Conf. P. 9: 70, 1933.
 iMcDaniel, Mich. Sp. B. 238: 35-36, 1933.
 bMunro, J. Ec. Ent. 24: 682-685, 1931.
 Munro & Fox, N. & S.Dak. Hort. 5: 91, 1933.
 biMunro & Fox, N.Dak. B. 278, 1934, 23p.
 iMunro & Riddle, N.Dak. C. 42 rev.: 14, 1933.
 iPetch & Maltais, Que. Soc. Prot. Pl. R. 23/24: 131-136, 1932.
- Prionus californicus Mots. (California prionus)***
 iEssig, Sci. Month. 38: 183, 1934.
 Fite, N.Mex. B. 209: 39, 1933.
 iGarcia, N.Mex. R. 40: 36, 1929; R. 43: 43-45, 1932; R. 45: 40-42, 1934.
 J. Ec. Ent. 25: 1249-1250, 1932.
- Prionus imbricornis**
 Marlatt, USDA Ent. R. f. 1931: 13-14.
 Nettles, S.C. R. 45: 76, 1932.
 bSmith, Ann. Ent. Soc. Amer. 26: 513, 1933.
 bSummerland, J. Ec. Ent. 25: 1172-1176, 1932.
- Prionus laticollis (Drury) (Broad-necked root borer)***
 Felt & Bromley, Nat. Shade Tree Conf. P. 6: 17, 1930.
 iFite, N.Mex. B. 209: 39, 1933.
 Garcia, N.Mex. R. 41: 65-66, 1931.
 iGoldman, Trans. Amer. Ent. Soc. 59: 95-96, 1933.
 Nettles, S.C. R. 45: 76, 1932.
- Priophorus acericaulis**
 Britton, Conn. B. 344: 128, 1933.
- Pristiphora banksi**
 Bailey, Vt. Comm. Agr. Bien. R. 17: 73-74, 1934.
- Pristocaulophilus celatus**
 Buckell, B.C. Ent. Soc. P. 27: 48, 1930.
- Pristomerus ocellatus**
 Butler, J. Ec. Ent. 26: 986, 1933.
 Driggers, J. N.Y. Ent. Soc. 40: 492, '32.
- Privet insects**
 Felt, J. Ec. Ent. 25: 930, 1932.
 iMcConnell, J. Ec. Ent. 23: 142-144, 1930.
 Turner & Plumb, Conn. B. 338: 595, 1932.
- *Privet leaf miner, see Gracilaria cuculipennella Hbn.**
- Privet thrips, see Dendrothrips ornatus.**
- Probatius unicolor**
 nFisher, PUSNM 80(22): 87-89, 1932.
- Probittacus avitus**
 iCarpenter, J. N.Y. Ent. Soc. 39: 411-414, 1931.
- Problema**
 bEaton, Ann. Ent. Soc. Amer. 25: 24, 1932.
- Procanace, P. galapagensis, panamensis**
 nCurran, Cal. Acad. Sci. P. ser. 4, 21: 160-161, 1934.
- Procecidochares**
 biBenjamin, USDA TB 401: 22-23, 1934.
- Proceratium croceum**
 Haskins, J. N.Y. Ent. Soc. 38: 121-126, 1930.

- Proceratium croceum** *Cont'd*
iSmith, Ann. Ent. Soc. Amer. 23: 390-392, 1930.
- Prochaetops** spp.
inMalloch, Bernice P. Bishop Mus. B. 98: 5-11, 1932.
- Prochaetopsis**
nMalloch, Bernice P. Bishop Mus. B. 98: 11-12, 1932.
- Prochola fuscata**
inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 357, 1931.
inForbes, P.R. Dept. Agr. J. 15: 357, '31.
- Prociphilus**—Key
Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 229, 1934.
- Prociphilus erigeronensis**
McDaniel, Mich. Sp. B. 214: 55, 1931.
- Prociphilus fraxinifolii**
iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 371-372, 1931.
- Prociphilus imbricator** (Fitch) (Beech blight aphid)*
Felt, Nat. Shade Tree Conf. P. 8: 78, 1932.
- Prociphilus tessellatus** (Fitch) (Woolly alder aphid)*
Bailey, Vt. Com. Agr. Bien. R. 17: 74, 1934.
- Proconotyla blakei**
Blake, B. Bost. Soc. Nat. Hist. 60: 19, 1931.
- Proctacanthella**
nBromley, Ann. Ent. Soc. Amer. 27: 96, 1934.
- Proctacanthus bromleyi**
nCurran, Amer. Mus. Nov. 487: 22, '31.
- Proctacanthus milbertii** (Missouri bee-killer)
bBromley, J. N.Y. Ent. Soc. 38: 172, '30.
- Proctacanthus philadelphicus**
Bromley, J. N.Y. Ent. Soc. 38: 171, '30.
- Proctacanthus rodecki**
nJames, Amer. Mus. Nov. 596: 2-3, '33.
- Procusto achagrinado**
iPeña, La Hacienda 25: 74, 1930.
- Prodecatoma diospyri**
nMuesebeck, P. Ent. Soc. Wash. 34: 109-110, 1932.
- Prodenia commelina**
Bruner, Rev. de Agr. Cuba 14(15/16): 93, 1933.
- Prodenia eridania** (Cram.) (Southern armyworm)*
Ball, Boyden, & Stone, Fla. B. 250: 18-19, 1932.
bCrumb, Bklyn. Ent. Soc. B. 27: 93-94, 1932.
- Prodenia latifascia**
Watson, Fla. B. 232: 93, 1931.
- Prodenia ornithogalli** Guen. (Yellow-striped armyworm)*
bCrumb, Bklyn. Ent. Soc. B. 27: 94-95, 1932.
iFolsom, USDA FB 1688: 17, 1932.
Watson, Fla. B. 232: 93, 1931.
- Prodenia praeifica**
bBlanchard & Conger, J. Ec. Ent. 25: 1059-1070, 1932.
Cartwright et al, Cal. Agr. Mo. B. 22: 159, 1933.
bCrumb, Bklyn. Ent. Soc. B. 27: 94, 1932.
- Prodenia** spp.
Bruner, Rev. de Agr. Cuba 14(18): 51, 1933.
iWatson, Fla. B. 232: 93, 1931.
- Prodesmetopa latipes**
Beard, Amer. Boys' Bk. Bugs: 184-189, 1932.
- Prodesmetopa** spp.
iO'Flaherty & Roddy, J. Amer. Leather Chem. Assoc. 27: 36-39, 1932.
- Prodesmetopa** spp.
nTownsend, J. N.Y. Ent. Soc. 40: 461-462, 1932.
- Proechinophthirus**
biFerris, Stanford Univ. Pub. Univ. Ser. Biol. Sci. 2: 480-484, 1934.
- Prognathogryllus alatus**
Bryan, Hawaiian Ent. Soc. P. 7: 381, 1931.
- Progompheus dorsopallidus**
inByers, Mich. Univ. Mus. Zool. Occ. Pap. 294, 1934, 5p.
- Prohypotachina**, *P. rutilioides*
nTownsend, J. N.Y. Ent. Soc. 40: 464-465, 1932.
- Proisotoma americana**
inMills, Collembola of Iowa: 51-52, 1934.
- Proisotoma bayouensis**
inMills, Amer. Mus. Nov. 464: 1-3, 1931.
- Proisotoma bulbosa**
inMills, Collembola of Iowa: 52-53, 1934.

- Proisotoma (Isotomina) indica**
in Brown, Hawaiian Ent. Soc. P. 8: 35-36, 1932.
- Proisotoma minuta**
Britton, Conn. B. 338: 594, 1932.
Davis, P. Ent. Soc. Wash. 36: 269, '34.
Lacroix, Conn. B. 335: 262, 1932.
- Proisotoma nigromaculosa**
in Folsom, Hawaiian Ent. Soc. P. 8: 62, 1932.
- Proisotoma simplex**
Davis, P. Ent. Soc. Wash. 36: 269, '34.
- Prokalotermes**
in Emerson, Cal. Univ. Pub. Ent. 6(6): 189, 1933.
- Prolophosia, P. petiolata**
in Townsend, J. N.Y. Ent. Soc. 40: 450-451, 1932.
- Promachina**
in Bromley, Ann. Ent. Soc. Amer. 27: 96, 1934.
- Promachus fitchii (Nebraska bee-killer)**
in Bromley, J. N.Y. Ent. Soc. 38: 160-167, 1930.
- Promachus spp.**
in Bromley, Bklyn. Ent. Soc. B. 25: 288-290, 1930.
in Bromley, Ann. Ent. Soc. Amer. 24: 435, 1931; 27: 93-94, 1934.
- Promecotheca cumingii**
Farley, Rev. de Agr. Cuba 12(6): 34, '30.
- *Promethea moth, see Callosamia promethea (Drury)**
- Promylaea pyropa**
Williams, Hawaiian Ent. Soc. P. 8: 370-371, 1934.
- Promylaea quadrifascia**
in Swezey, Hawaiian Ent. Soc. P. 8: 523, 1934.
- Promyrmecia aberrans**
Wheeler, Science, n.s. 76: 533, 1932.
- Prophanurus alecto**
in Wolcott, Ec. Ent. of West Indies, 176-177, 1933.
- Prophryganea spp.**
in Ball, Can. Ent. 63: 230, 1931.
in Milne, Can. Ent. 63: 228-232, 1931.
- Prophryno myersi**
in Aldrich, P. Ent. Soc. Wash. 35: 173, 1933.
- Proragrotis dubitata**
in McDunnough, Can. Ent. 65: 201, 1933.
- Proscus walshiae**
Cushman, PUSNM 82(14): 4-5, 1933.
- Prosenia siberita**
in Clausen, Jaynes & Gardner, USDA TB 366: 25-27, 1933.
in King, J. Ec. Ent. 24: 457-458, 1931.
Marlatt, USDA Ent. R. f. 1930: 6; R. f. 1931: 23.
- Prosimulium fulvum**
Hearle, B.C. Ent. Soc. P. 29: 8, 18-19, 1932.
- Prosimulium novum**
Hearle, B.C. Ent. Soc. P. 29: 7, 1932.
- Prosopidae, see Hylaeidae**
- Prosopis modestus (Twig-dwelling bee)**
Rau, Psyche, 37: 173-175, 1930.
- Prosopothrips brunneus**
in Watson, Fla. Ent. 15: 51-52, 1931.
- Prospaltella berlesei**
Baker, USDA C. 295: 8-9, 1933.
in Balduf, Smithsonian. R. f. 1931: 439, '32.
- Prospaltella brasiliensis**
Dozier, P. Ent. Soc. Wash. 34: 121-122, 1932.
- Prospaltella diaspidicola**
Dozier, P. Ent. Soc. Wash. 35: 93, '33.
- Prospaltella divergens**
in Clausen & Berry, USDA TB 320: 31-32, 1932.
- Prospaltella fuscipennis**
Baker, Nat. Pecan Grow. Assoc. P. 30: 39, 1931.
Baker, USDA C. 295: 8-9, 1933.
- Prospaltella smithi**
Berry, Rev. de Agr. Cuba 12(1): 25-26, 1930.
in Clausen & Berry, USDA TB 320: 33, 1932.
Kuwana, Pac. Sci. Cong. 5, P. 5: 3521-3523, 1934.
- Prospaltella sp.**
Davis et al, USDA TB 388: 45, 1933.
- Prospaltella tristis**
Gahan, Ann. Ent. Soc. Amer. 25: 742, 1932.
- Prostephanus truncatus**
Back, USDA FB 1029 rev.: 18, 1931.
in Back & Cotton, USDA FB 1260 rev.: 9-11, 1930.
- Protaeniasius sp.**
Swezey, Hawaiian Ent. Soc. P. 7: 484, 1931.

- Protagrotis niveivenosa**
 biMartin & Cotner, Ann. Ent. Soc. Amer.
 27: 372-383, 1934.
- Protambulyx strigilis portoricensis**
 nClark, New Eng. Zool. Club. P. 12: 79,
 1931.
- Protaneflus, P. pubescens**
 nLinsley, Psyche 41: 233-234, 1934.
- Protanura capitata**
 niFolsom, Hawaiian Ent. Soc. P. 8: 56,
 1932.
- Protopanteles hawaiiensis**
 Swezey, Hawaiian Ent. Soc. P. 8: 234,
 1933.
- Protective adaptation see Insects—Mimicry**
- Protenthes fasciger**
 nCurran, BAMNH 61: 29-30, 1931.
- Proteopteryx bolliana, see Gretchena bolliana**
- Proterhinus spp.**
 nPerkins, Hawaiian Ent. Soc. P. 7: 509-513, 1931.
 inPerkins, Bernice P. Bishop Mus. B. 98:
 19-21, 1932.
 Swezey, Hawaiian Ent. Soc. P. 8: 381,
 1934.
- Proterpia truncaticornis**
 nGoding, Amer. Mus. Nov. 421: 15-16,
 1930.
- Protichisma albibarbis**
 nCurran, Amer. Mus. Nov. 425: 7-8,
 1930.
- Protocalliphora**
 iGahan, Can. Ent. 65: 31-33, 1933.
- Protocalliphora avium**
 Jellison, Can. Ent. 65: 28-29, 1933.
- Protocalliphora chrysorrhea**
 bSchwardt, Ann. Ent. Soc. Amer. 25:
 611, 1932.
- Protocalliphora hirudo cuprea**
 bJohnson, B. Bost. Soc. Nat. Hist. 59:
 21, 1931.
- Protocalliphora sialia**
 bJohnson, B. Bost. Soc. Nat. Hist. 59:
 23, 1931.
- Protocalliphora spp.**
 bJellison & Philip, Can. Ent. 65: 26-31,
 1933.
 bJohnson, B. Bost. Soc. Nat. Hist. 59:
 21-24, 1931.
- Protocalliphora splendida**
 bJohnson, B. Bost. Soc. Nat. Hist. 59:
 23, 1931.
 Whitehead, J. Ec. Ent. 26: 293, 1933.
- Protodarcia**
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R.
 12(1 sup.): 389, 1931.
 nForbes, P.R. Dept. Agr. J. 15: 389-391,
 1931.
- Protodarcia argyrophaea**
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R.
 12(1 sup.): 390, 1931.
 inForbes, P.R. Dept. Agr. J. 15: 390, '31.
- Protodarcia bicolorella**
 inForbes, N.Y. Acad. Sci. Sci. Surv. P.R.
 12(1 sup.): 389-390, 1931.
 inForbes, P.R. Dept. Agr. J. 15: 389-390,
 1931.
- Protopygia comstocki**
 inMcDunnough, Can. Ent. 66: 257-258,
 1934.
- Protopygia enalaga, lagena**
 inMcDunnough, Can. Ent. 64: 108-109,
 1932.
- Protokalumma**
 Jacot, Amer. Midland Nat. 14: 680-692, 1933.
- Protoneurinae—Key**
 Klots, N.Y. Acad. Sci. Sci. Surv. P.R.
 14: 80, 1932.
- Protoparce—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R.
 12: 52-53, 1930.
- Protoparce camposi**
 nSchaus, J. Wash. Acad. Sci. 22: 137-138, 1932.
- Protoparce celius**
 iAmos, Purdue Agr. 26: 142, 1932.
 Caffrey, Md. Agr. Soc. R. 19: 278, '34.
 iGilbert & Popenoe, USDA FB 1371
 rev: 37-38, 1934.
 Langford, Peninsula Hort Soc. Trans.
 f. 1931: 76.
- Protoparce florestan ishkal**
 nSchaus, J. Wash. Acad. Sci. 22: 138-139, 1932.
- Protoparce quinque maculata (Haw.) (Tobacco worm)***
 iBritton, Conn. B. 344: 169-170, 1933.
 iCaesar, Ont. Dept. Agr. B. 359: 64-65,
 1931.
 Compton, Ill. C. 391: 23-24, 1932.

- Crosby & Chupp, N.Y. (C.) Ext. B. 206
rev.: 76, 1933; B. 278: 62, 1934.
- biDelong, Ohio J. Sci. 34: 196, 1934.
- biDuncan, Cal. St. Teach. Coll. Insects:
115, 117, 1932.
- iDustan, Can. Dept. Agr. Ent. B. 32:
70, 1932.
- iGilmore & Milam, J. Ec. Ent. 26: 227-
233, 1933.
- biHartzell & Wilcoxon, Boyce Thompson
Inst. Contrib. 4: 107-117, 1932.
- Swezey, Hawaiian Ent. Soc. P. 8: 5-6,
1932.
- Watson, Fla. B. 232: 101-103, 1931.
- Williams, Hawaiian Ent. Soc. P. 7: 373,
1931.
- Protoparce rustica**
Gilbert & Popenoe, USDA FB 1371,
rev.: 38, 1930.
- Protoparce sexta (Tomato worm)***
Barber, J. Ec. Ent. 26: 1175, 1933.
- Beattie, USDA FB 1388, rev: 23-24,
1931.
- Bruner, Rev. de Agr. Cuba 14(15): 16,
93, 1933.
- iChardon, P.R. Mision Agr. Valle del
Cauca: 195-196, 1930.
- iCompton, Ill. C. 391: 23-24, 1932.
- Crosthwait, Peninsula Hort. Soc.
Trans. 47: 77, 1933.
- D.J.W., Cal. Cult. 78: 41, 1932.
- iDavis, Ind. Ext. B. 186: 6-7, 1932.
- biDuncan, Cal. St. Teach. Coll. Insects:
118, 1932.
- iGilmore & Milam, J. Ec. Ent. 26: 227-
233, 1933.
- iHerrick, Rur. N.Y. 90: 27, 1931.
- iLacroix, Conn. B. 367: 139, 1934.
- iMcDaniel, Mich. Quar. B. 14: 245-
246, 1932.
- Marlatt, USDA Ent. R. f. 1930: 29-30;
R. f. 1931: 41.
- Moser, Tenn. St. Hort. Soc. P. 25: 87-
89, 1930.
- iMunro & Riddle, N.Dak. C. 42 rev:
58-59, 1933.
- Searles, J. Ec. Ent. 27: 290, 1934.
- Sherman, S.C. R. 46: 84-85, 1933.
- iSmith, J. Kans. Ent. Soc. 5: 90, 1932.
- Stoutamire, Fla. Dept. Agr. B. 40, n.s.:
39-40, 1930.
- Watson, S.C. Wkly. News Notes, 19
(52), 1931.
- biWolcott, Ec. Ent. of West Indies: 565-
570, 1933.
- Protoparce spp.**
Lacroix, Conn. B. 326: 420, 430-431,
1931.
- Protoplasma fitchii**
iCrampton, Bklyn. Ent. Soc. B. 25:
239-258, 1930.
- iCrampton, P. Ent. Soc. Wash. 32: 83-
95, 1930.
- Johannsen, N.Y.(C.) M. 164: 15, 1934.
- biWilliams, J. N.Y. Ent. Soc. 41: 1-36,
1933.
- Protopulvinaria pyriformis Kkll. (Pyriform
scale)***
iWatson & Berger, Fla. Ext. B. 67: 36,
1932.
- Prototrimarga, P. bequaertiana**
nAlexander, Harv. Univ. Inst. Trop.
Biol. Contrib. 5: 1010-1012, 1930.
- Protortonia primitiva**
biSchradler, Ann. Ent. Soc. Amer. 23:
126-132, 1930.
- Protoschelobates spp.**
nJacot, Bernice P. Bishop Mus. B. 121:
40-51, 1934.
- Protosphaerion testaceum**
nFisher, PUSNM 80(22): 45-46, 1932.
- Protothore explicata**
nCockerell, Ent. News 41: 50, 1930.
- Protoxaea gloriosa pallida**
nCockerell, Can. Ent. 66: 153, 1934.
- Protoxaea texana**
Cockerell, Amer. Nat. 67: 286-288, '33.
- Protura (Myrientomata)**
Van Zwaluwenburg, Hawaiian Ent.
Soc. P. 8: 378, 1934.
- Proviadana, P. lita**
inHebard, Trans. Amer. Ent. Soc. 59:
50-52, 1933.
- Prune borer, see Conopia opalescens**
- Prune insects**
inDeLong & Davidson, Ohio J. Sci. 34:
161-162, 1934.
- biHaeghele, J. Ec. Ent. 25: 1073-1077, '32.
- Iddings, Ida. B. 197: 37-38, 1933; B.
205: 45, 1934.
- bWymore, J. Ec. Ent. 27: 888, 1934.
- Prune thrips, see Taeniothrips inconse-
quens**

Psalidonota texana

nSchaeffer, Pan-Pac. Ent. 9: 108-109, 1933.

***Psallus amorphae* 125, *astericola* 125-126, *atritibialis* 129**

nKnight, Can. Ent. 62: 1930.

Psallus biguttulatus

bMcGarr, J. Ec. Ent. 26: 953-956, 1933.

***Psallus carneatus* 128, *cercocarpicola* 127-128, *flaviclavus* 130 *fuscopunctatus* 126-127, *nicholi* 127, *nigrovirgatus* 130-131**

nKnight, Can. Ent. 62: 1930.

Psallus pictipes

bMcGarr, J. Ec. Ent. 26: 953-956, 1933.

Psallus rubrofemoratus

nKnight, Can. Ent. 62: 129, 1930.

Psallus seriatus* (Cotton flea hopper)

Bibby, Tex. R. 46: 44, 1933.

Brunson, S.C. Ext. C. 104: 16, 1930.

Cook, J. Ec. Ent. 25: 766-769, 1932.

Dunnam & Moreland, Tex. R. 45: 33-34, 1932.

iEwing, J. Ec. Ent. 24: 821-827, 1931.

biEwing & McGarr, J. Ec. Ent. 26: 943-953, 1933.

Folsom, USDA FB 1688: 7-9, 1932.

iGaines, J. Ec. Ent. 26: 963-971, 1933.

Gaines, Tex. R. 46: 44, 1933.

Gaines, Dunham & Jones, Tex. R. 44: 32-33, 1931.

Gaines & Thomas, Tex. R. 46: 43-44, 1933.

Harned, USDA YB f. 1933: 127.

Jones, Tex. R. 46: 51, 1933.

iKing & Cook, USDA TB 296, 1932, 12p.

Lutken, S.C. Wkly. News Notes 18(51) 1930.

bMcGarr, J. Ec. Ent. 26: 953-956, 1933.

Marlatt, USDA Ent. R. f. 1930: 37;

R. f. 1931: 47-48; R. f. 1932: 21; R. f. 1933: 26-27.

biPainter, J. Agr. Res. 40: 485-516, 1930.

Reinhard, Tex. R. 43: 33-34, 1930; R. 44: 33-34, 1931; R. 45: 34, 1932;

R. 46: 44, 1933.

Thomas et al, Tex. R. 46: 43, 1933; R. 47: 44-46, 1934.

Watts, S.C. R. 47: 61-63, 1934.

iAla. Leaf. 10: 5-6, 1934.

Psallus vaccinicola

nKnight, Can. Ent. 62: 128-129, 1930.

***Psammobius armaticeps* 190-191, *blandus* 191-192, *mimeticus* 192**

nFall, J. N.Y. Ent. Soc. 40: 1932.

Psammochaeres catalinae*, *fabricii

nBanks, Psyche 40: 6, 7, 1933.

Psammocharidae

Banks, Bklyn. Ent. Soc. B. 26: 131-134, 1931.

nBanks, Amer. Acad. Arts & Sci. P. 69(1): 1-117, 1934.

Psammoleon bistictus

Smith, Ann. Ent. Soc. Amer. 24: 815-816, 1931.

Psammoporus

Brown, Can. Ent. 63: 16-17, 1931.

Psara perusialis

Leonard, P.R. Ins. R. f. 1929-1930: 118, 1931.

Pschychoris torridus

bHussey, Bklyn. Ent. Soc. B. 29: 133-145, 1934.

Pselaphidae

Fletcher, Can. Ent. 64: 29-35, 1932.

binPark, Ann. Ent. Soc. Amer. 26: 563-567, 1933.

Pselliopus cinctus

bEasterling, Ohio J. Sci. 34: 136, 1934.

***Psen*—Key**

inMalloch, PUSNM 82(26): 13-14, 1934.

Pseneo

inMalloch, PUSNM 82(26): 7-9, 1934.

***Psenia* spp.**

inMalloch, PUSNM 82(26): 44-58, 1934.

Pseninae

iMalloch, PUSNM 82(26): 1-60, 1934.

Psphenus usingeri

inHinton, Ann. Ent. Soc. Amer. 27: 617-618, 1934.

Pseudachorutes subcrassoides

inMills, Collembola of Iowa: 24-25, 1934.

Pseudagenia architecta

iRau, Can. Ent. 66: 260, 1934.

***Pseudagenia* spp.**

nBanks, Amer. Acad. Arts & Sci. P. 69(1): 44-63, 1934.

Pseudagenini

Banks, Amer. Acad. Arts & Sci. P. 69(1): 39, 1934.

Pseudallonyx

Fall, Can. Ent. 62: 255-256, 1930.

- Pseudanophthalmus** spp.
inValentine, Elisha Mitchell Sci. Soc. J.
46: 250-261, 1931; 47: 252-274, 1932.
- Pseudanthonomus crataegi**
iSanderson, Ins. Pests Farm ed. 3: 347-348, 1931.
- Pseudanthribus**
nPierce, PUSNM 77(17): 24, 1930.
- Pseudantonina giganticaoxa, spirapuncta**
inLobdell, Ann. Ent. Soc. Amer. 23: 211-213, 1930.
- Pseudaonidia duplex** (Camphor scale)*
Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(6): 51, 1931.
Berly, S.C. C. 43: 24, 1930.
bCressman & Kessels, J. Ec. Ent. 26: 1177-1179, 1933.
- Pseudaptinus**—Key
nDarlington, Psyche 41: 125-128, 1934.
- Pseudaptinus insularis**
nMutchler, Amer. Mus. Nov. 686: 4, 1934.
- Pseudepicausta angulata** 26, *attenuata* 27-28, *bataviensis* 26, *completa* 27
nMalloch, PUSNM 78(15): 1931.
- Pseuderimerus femoratus** 32-33, *mayetiolae* 30-32, *semiflavus* 33
nGahan, USDA Misc. Pub. 174: 1933.
- Pseudeutreta ligularis**
inBates, Psyche 40: 52-53, 1933.
- Pseudibalia**
Weld, P. Ent. Soc. Wash. 32: 138, 1930.
- Pseudocaeclius pretiosus**
iChapman, J. N.Y. Ent. Soc. 38: 332-334, 1930.
- Pseudoceradocus, P. lutzi**
nShoemaker, Amer. Mus. Nov. 598: 11-15, 1933.
- Pseudocistela pacifica, pectinata**
nHopping, Can. Ent. 65: 281-285, 1933.
- Pseudocloeon carolina**
iIde, Can. Ent. 62: 221-222, 1930.
- Pseudocloeon** spp.
nMcDunnough, Can. Ent. 63: 85-87, 1931; 64: 210-213, 1932.
- Pseudocneorrhinus setosus**
Britton, J. Ec. Ent. 25: 931, 1932.
iBritton, Conn. B. 349: 434-437, 1933; B. 360: 476, 1934.
Hyslop, J. Ec. Ent. 27: 563, 1934.
- Pseudococcobius (Aphycus) terryl**
Dominguez, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1932/1933: 150-151.
Holloway, J. Ec. Ent. 25: 1107, 1932.
Marlatt, USDA Ent. R. f. 1932: 13.
Pemberton, Facts about Sugar 27: 485, 1932.
Swezey, J. Ec. Ent. 24: 946-947, 1931.
- Pseudococcus acutus**
inLobdell, Ann. Ent. Soc. Amer. 23: 213-214, 1930.
- Pseudococcus adonidum** (Long-tailed mealybug)*
Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(6): 52, 1931.
iBasinger, Cal. Agr. Mo. B. 20: 191, '31.
iBritton, Conn. B. 344: 121, 1933.
Clancy, J. Ec. Ent. 26: 1171, 1933.
Flanders, J. Ec. Ent. 25: 1240-1241, 1932.
biLockwood, Cal. Agr. Mo. B. 22: 342, 1933.
iMcDaniel, Mich. Sp. B. 214: 64, 1931.
Ryan, Los Angeles Co. Comm. Agr. R. f. 1932: 15.
Schmidt, Hawaiian Ent. Soc. P. 8: 233, 1933.
Smith & Armitage, Cal. B. 509: 16, '31.
Watson & Berger, Fla. Ext. B. 67: 43, 1932.
- Pseudococcus adonidum**—Parasites
biCompere & Flanders, J. Ec. Ent. 27: 966-973, 1934.
- Pseudococcus aurilanus**
iBasinger, Cal. Agr. Mo. B. 20: 190, '31.
- Pseudococcus boninsis** (Gray mealybug)
Barreto, Assoc. Tecn. Azucar. Cuba P. 5: 132-134, 1931.
Barreto, Facts about Sugar 27(3): 136, 1932.
Gray, Miss. St. Pl. Bd. Quar. B. 10(1): 12-13, 1930.
Loftin, Assoc. Tecn. Azucar. Cuba P. 4: 55, 1930.
Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 49, 1932.
Pemberton, Facts about Sugar 27: 485, 1932.
iSanderson, Ins. Pests Farm, ed. 3: 290-292, 1931.
- Pseudococcus boninsis**—Parasites
Holloway, J. Ec. Ent. 25: 1107, 1932.
Marlatt, USDA Ent. R. f. 1932: 13.

Pseudococcus brevipes (Pineapple mealybug)*

- Carter, J. Ec. Ent. 24: 1233-1235, 1931.
 Carter, Mid-Pac. Mag. 42: 328, 1931.
 biCarter, Ecology 13: 296-304, 1932.
 biCarter, J. Ec. Ent. 25: 1027-1030, '32.
 Carter & Ito, Hawaiian Ent. Soc. P. 8: 37-39, 1932.
 iCrawford, Hawaii Ent. B. 9: 13, 1931.
 Illingworth, Hawaiian Ent. Soc. P. 7: 407, 1931.
 Pemberton, Hawaiian Sugar Pl. Assoc. Exp. Sta. R. f. 1934: 24.
 Pratt, Pineapple News 4: 66-67, 1930.
 Smith, Cal. Agr. Mo. B. 19: 205, 1930.
 bWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 114-115, '31.
- Pseudococcus brevipes—Parasites**
 Fullaway, Hawaii Bd. Comm. Agr. & For. Bien. R. f. 1930: 82, 1931.
 Fullaway, Hawaiian For. & Agr. 27: 215-216, 1930.
 Schmidt, Hawaiian Ent. Soc. P. 8: 517-518, 1934.
- Pseudococcus brevipes and Pineapple wilt**
 biCarter, Phytopath. 23: 207-242, 1933.
 Illingworth, J. Ec. Ent. 24: 877-889, 1931.
- Pseudococcus brevipes and Pineapple yellow spot**
 biCarter, Phytopath. 22: 996-997, 1932; 23: 243-259, 1933.
- Pseudococcus calceolariae, see Pseudococcus boninsis**
- Pseudococcus citri (Citrus mealybug)***
 Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(6): 52-53, 1931.
 Armitage, Cal. Cult. 74: 435, 1930.
 iBasinger, Cal. Agr. Mo. B. 20: 192, '31.
 Bates, Fla. Ent. 17: 32, 1933.
 iBritton, Conn. B. 344: 121, 1933.
 Compere, Cal. Cit. 15: 563, 1930.
 Essig, Hist. of Ent.: 127-128, 1931.
 Hamilton, N.J. R. 52: 220, 1931.
 biLockwood, Cal. Agr. Mo. B. 22: 342, 1933.
 McClintock, Phytopath. 21: 384, 1931.
 McDaniel, Mich. Sp. B. 214: 64, 1931.
 iMyers, J. Ec. Ent. 25: 891-896, 1932.
 Richardson, J. Ec. Ent. 25: 412, 1932.
 Ryan, Los Angeles Co. Comm. Agr. R. f. 1932: 15, 41.

iSanderson, Ins. Pests Farm, ed. 3: 465-467, 1931.

Smith & Armitage, Cal. B. 509: 11-13, 1931.

biSutherland, Que. Soc. Prot. Pl. R. 23/24: 105-118, 1932.

Watson, Fla. B. 232: 83, 1931.

iWatson & Berger, Fla. Ext. B. 67: 40-43, 1932.

bWolcott, P.R. Dept. Agr. J. 17: 223-239, 1934.

Pseudococcus citri—Insecticides—Lethane 420

Murphy & Peet, Indus. & Engin. Chem. 25: 638-639, 1933.

Pseudococcus citri—Parasites

Baird, Ent. Soc. Ont. R. 65: 73, 1934.

iBasinger, Cit. Leaves 11(8): 6-8, 30-31, 1931.

biCole, J. Ec. Ent. 26: 855-864, 1933.

Compere, Cal. Cit. 15: 448, 1930.

Dozier, J. Ec. Ent. 25: 990, 1932.

Hutchison, Cal. R. f. 1929/1930: 36, 1931.

Thomson, Cit. Ind. 12(5): 5, 28-29, 32, 1931.

Webber, What Research has done for Subtrop. Agr.: 26-27, 1934.

Pseudococcus citricolus

Ehrhorn, Hawaiian Ent. Soc. P. 8: 2, 1932.

Pseudococcus comstocki

bBritton, Conn. B. 327: 532-535, 1931.

Compere & Smith, Hilgardia 6: 593, 1932.

Turner, Nat. Shade Tree Conf. P. 7: 132-133, 1931.

Pseudococcus comstocki—Parasites

Britton, Conn. B. 327: 534, 1931.

Compere, Can. Ent. 65: 243-247, 1933.

Pseudococcus dentatus, difficilis

inLobdell, Ann. Ent. Soc. Amer. 23: 214-216, 1930.

Pseudococcus filamentosus

Pope, Hawaii B. 71: 15, 1934.

Swezey, J. Ec. Ent.: 24: 947, 1931.

Pseudococcus gahani (Citrophilus mealybug)*

iBasinger, Cal. Agr. Mo. B. 20: 193, '31.

Browne, Cal. Agr. Mo. B. 20: 389-391, 1931.

Burke, Cal. Agr. Mo. B. 21: 364, 1932.

- Essig, Hist. of Ent.: 131-132, 1931.
 Hutchison, Cal. R. f. 1929/1930: 35, 1931.
 biLockwood, Cal. Agr. Mo. B. 22: 342, 1933.
 Ryan, Cal. Agr. Mo. B. 19: 727, 1930.
 iSanderson, Ins. Pests Farm, ed. 3: 467-468, 1931.
 iSmith & Armitage, Cal. B. 509: 5-11, 1931.
 Volck & Hunt, Cal. Spray-Chem. Corp. Res. B. July 1931, 20-21.
Pseudococcus gahani—Parasites
 biClancy, Cal. Univ. Pub. Ent. 6: 231-248, 1934.
 bCompere & Smith, Hilgardia 6: 585-618, 1932.
 Davis, Flor. Rev. 70(1801): 25, 1932.
 bSmith, Ann. Ent. Soc. Amer. 26: 523-524, 1933.
 Smith & Compere, J. Ec. Ent. 24: 942-945, 1931.
 Woglum, Cal. Fr. Grow. Exch. B. 7: 30, 1930.
 Cal. Cit. 16: 508, 1931.
 J. Ec. Ent. 24: 1116, 1931.
Pseudococcus hystricosus
 inCockerell & Bueker, Amer. Mus. Nov. 441: 4-6, 1930.
Pseudococcus kraunhiae
 Harned, Miss. R. 44: 30-32, 1931.
 biLockwood, Cal. Agr. Mo. B. 22: 342, 1933.
 Smith & Armitage, Cal. B. 509: 14-15, 1931.
 Swezey, Hawaiian Ent. Soc. P. 8: 227, 1933.
Pseudococcus kraunhiae—Parasites
 Swezey, Hawaiian Ent. Soc. P. 8: 273, 1933.
Pseudococcus longispinus see Pseudococcus adonidum
Pseudococcus maritimus (Grape mealybug)*
 iBasinger, Cal. Agr. Mo. B. 20: 192, '31.
 bDickson, Que. Soc. Prot. Pl. R. 23/24: 97-104, 1932.
 iEssig, Hist. of Ent.: 135-136, 1931.
 iEssig & Hoskins, Cal. Ext. C. 87: 71-72, 1934.
 biLockwood, Cal. Agr. Mo. B. 22: 342, 1933.
 iMcDaniel, Mich. Sp. B. 214: 65-66, 1931.
 iMcDaniel, Mich. C. B. 149: 18-19, '34.
 iPettit, Mich. Sp. B. 239: 17-19, 1933.
 Ryan, Los Angeles Co. Comm. Agr. R. f. 1932: 15.
 Smith & Armitage, Cal. B. 509: 13-14, 1931.
 iWright, Cal. Agr. Mo. B. 19: 588-590, 1930.
 Wright, Cal. Agr. Mo. B. 23(7/9): 213, 1934.
Pseudococcus nipae (Mask.) (Coconut mealybug)*
 iBasinger, Cal. Agr. Mo. B. 20: 190, 1931.
 McDaniel, Mich. Sp. B. 214: 65, 1931.
Pseudococcus obesus
 inLobdell, Ann. Ent. Soc. Amer. 23: 216-217, 1930.
Pseudococcus probrevipes
 Wheeler & Darlington, Psyche 37: 112, 1930.
Pseudococcus sacchari see Trionymus sacchari
Pseudococcus spp.
 iEssig & Hoskins, Cal. Ext. C. 87: 94-96, 1934.
 biMex. Agr. & Fomento. Principales Plagas: 146-148, 1930.
 biMuncie & Patel, Amer. J. Bot. 17: 223-225, 1930.
 iSmith & Armitage, La Hacienda 27: 376-378, 1932.
Pseudococcus virgatus
 Cockerell, Nat. Hist. 32: 402, 1932.
 Dozier, P. Ent. Soc. Wash. 34: 7-9, '32.
Pseudocryptopone zwaluwenburgi, swezeyi
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 375, 1934.
Pseudocryptothrips proximus
 inFaure, Bklyn. Ent. Soc. B. 28: 55-57, 1933.
Pseudoderopeltis diluta
 bRehn, P. Acad. Nat. Sci. Phila. 85: 41, 1933.
Pseudoeme, P. poolei
 nFisher, PUSNM 80(22): 4-7, 1932.
Pseudoepameibaphis, P. glauca
 inGillette & Palmer, Ann. Ent. Soc. Amer. 25: 145-147, 1932.

- Pseudogoera, P. singularis**
in Carpenter, Psyche 40: 37-38, 1933.
- Pseudogonatopus hospes**
Swezey & Williams, Pan-Pac. Res. Inst. J. 6 (3): 3-4, 1931.
- Pseudogriphoneura vittifacies**
nCurran, Amer. Mus. Nov. 456: 20, '31.
- Pseudolimmophora**
Huckett, J. N.Y. Ent. Soc. 40: 43-46, 1932.
- Pseudolucanus placidus**
Benesh, Ent. News 43: 40-41, 1932.
iMilne, Can. Ent. 65, 106-114, 1933.
- Pseudolynchia maura (Pigeon fly)***
Buckley, USDA FB 1652: 62, 1931.
Buckley & Bunyea, USDA FB 1652 rev.: 67, 1933.
Prouty & Coatney, J. Parasit. 20: 139, 1933.
- Pseudomasaris edwardsii**
biHicks, So. Cal. Acad. Sci. B. 30: 23-29, 1931.
- Pseudominthodes, P. scutellaris**
nTownsend, J. N.Y. Ent. Soc. 40: 455-456, 1932.
- Pseudomittraria lunda**
inRehn, P. Acad. Nat. Sci. Phila. 82: 134-135, 1930.
- Pseudomops boyacae**
inHebard, Trans. Amer. Ent. Soc. 59: 19-20, 1933.
- Pseudomyrma flavidula jaumei**
Aguayo, Bklyn. Ent. Soc. B. 27: 217, 1932.
- Pseudomyrma triplarina**
Wheeler & Darlington, Psyche 37: 108, 1930.
- Pseudopanurgus**
Crawford, P. Ent. Soc. Wash. 34: 76-78, 1932.
- Pseudopanurgus aethiops**
Hicks, Can. Ent. 63: 173, 1931.
- Pseudopanurgus gerardiae, stevensi**
nCrawford, P. Ent. Soc. Wash. 34: 77-78, 1932.
- Pseudopanurgus timberlakei**
nCockerell, P. Ent. Soc. Wash. 33: 201-202, 1931.
- Pseudopariatoria ostreata**
Bruner, Cuba Santiago de las Vegas C. 75: 11, 1931.
- Pseudophasma flavidum**
inHebard, Trans. Amer. Ent. Soc. 59: 33-34, 1933.
- Pseudopityophthorus spp.**
binBlackman, J. Wash. Acad. Sci. 21: 223-236, 1931.
- Pseudopsallus spp.**
nKnight, Bklyn. Ent. Soc. B. 25: 1-8, 1930.
- Pseudopsocus, P. amabilis**
nChapman, J. N.Y. Ent. Soc. 38: 287-290, 1930.
- Pseudorimus, P. granicollis, orbicollis**
nVan Dyke, Pan-Pac. Ent. 10: 182-185, 1934.
- Pseudoscorpionida**
biHilton, J. Ent. & Zool. 23: 67-75, 1931.
- Pseudoscutigerella, P. americana**
nHilton, Ann. Ent. Soc. Amer. 24: 539-541, 1931.
- Pseudosinella rolfsi**
inMills, Iowa St. Col. J. Sci. 6: 272-273, 1932.
- Pseudosinella (Lepidocyrtus) violenta**
bFolsom, J. Ec. Ent. 26: 935, 1933.
- Pseudosirex**
biCarpenter, Carnegie Mus. Ann. 21: 125-128, 1932.
- Pseudosphinx tetro**
iBritton, Conn. B. 360: 478-479, 1934.
Britton, Ent. News 45: 43, 1934.
- Pseudostenophylax difficilis, fumosus grahami**
inMartynov, PUSNM 79(25): 12-15, '31.
- Pseudosymploce personata**
inRehn, Trans. Amer. Ent. Soc. 56: 22-25, 1930.
- Pseudotephritina**
nMalloch, PUSNM 79(34): 5, 1931.
- Pseudotephritis spp.**
Malloch, PUSNM 79(34), 1931, 6p.
- Pseudothyrsocera fulva**
inHebard, P. Acad. Nat. Sci. Phila. 81: 79-80, 1929.
- Pseudotritia ardua**
biJacot, Bost. Soc. Nat. Hist. P. 39: 243-248, 1930.
iJacot, Bost. Soc. Nat. Hist. B. 63: 18-19, 1932.
bJacot, Elisha Mitchell Sci. Soc. J. 48: 256-258, 1933.

Pseudotritia simplex

binJacot, Bost. Soc. Nat. Hist. P. 39: 248, 1930.

†Psila rosae (F.) (Carrot rust fly)*

iBetten, N.Y. (C.) R. 45: 118-119, 1932.

Britton, Conn. Veg. Grow. Assoc. R. 18: 39-40, 1931.

Britton, Conn. B. 344: 92, 1933.

iCaesar, Ont. Dept. Agr. B. 359: 27-29, 1931.

Compton, Ill. C. 391: 41-42, 1932.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 81-82, 87, 1933.

iDustan, Ont. Veg. Grow. Assoc. R. 25: 49-52, 1930.

Dustan, Can. Hort. Fr. & Truck ed. 54, 155, 1931.

iDustan, Can. Dept. Agr. Ent. B. 32: 50-51, 1932.

Friend, Conn. Veg. Grow. Assoc. R. 20: 68-69, 1933.

Glasgow, J. Ec. Ent. 24: 189-196, 1931.

iGlasgow & Gaines, N.Y. Dept. Agr. B. 240: 70-75, 1930.

bGorham, Que. Soc. Prot. Pl. R. 25/26: 90-96, 1934.

Hedrick, N.Y. (Gen.) R. 50: 53-54, '31.

iPettit, Mich. Ent. R. f. 1930: 16-17.

Pettit, Mich. St. Bd. Agr. R. 69: 218-219, 1930; R. 70: 269, 1931.

iPettit, Mich. Quar. B. 13: 119-121, '31.

Pettit, Mich. Ent. R. f. 1931: 18-19.

Pettit, Mich. Ext. B. 117: 7, 1931.

Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 3(5): 4, 1932.

Twinn, Ent. Soc. Ont. R. 65: 117, 1934.

Whitcomb, Mass. B. 271: 258, 1931;

B. 280: 218-219, 1932; B. 293: 33-34, 1933; B. 305: 35, 1934.

Whitcomb & Waltham, Mass. B. 260: 350-351, 1930.

Wilkinson, Conn. (Storrs) Ext. B. 196: 17, 1933.

Psilinsara annulata

inHebard, Trans. Amer. Ent. Soc. 58: 304-305, 1932.

Psilocephala chapini

nCurran, BAMNH 58: 173, 1929.

Psilocurus, P. birdi, camposi

nCurran, Amer. Mus. Nov. 487: 8-10, 1931.

Psilocurus puellus

nBromley, Ann. Ent. Soc. Amer. 27: 92-93, 1934.

Psilopa petrolii

bThorpe, Science n.s. 73: 101-103, 1931.

Thorpe, Sci. News Letter 19: 127, 1931.

Psiloptera (Lampetis) aurata domingensis

nFisher, P. Ent. Soc. Wash. 32: 126, '30.

Psiloptera webbi

Smyth, J. Kans. Ent. Soc. 7: 111, 1934.

Psilopus (Sciapus) parvus

Van Duzee, Ent. News 44: 151, 1933.

Psilopus pectoralis, see Psilopus (Sciapus) parvus**Psilopus (Sciapus) tenuis**

Van Duzee, Ent. News 44: 151, 1933.

Psilotreta sp.

Federighi, Ohio J. Sci. 32: 320, 1932.

Psithyrus

biPlath, Bumblebees & Their Ways: 169-176, 1934.

iStep, Bees, Wasps, Ants: 17-22, 1932.

Psocathropus lachlani

Williams, Hawaiian Ent. Soc. P. 8: 8, 1932.

Psocidae

iAaron, Nature Mag. 22: 34, 1933.

iBanks, Hawaiian Ent. Soc. P. 7: 437-444, 1931.

Finlayson, Ent. Soc. Ont. R. 63: 56-58, 1932.

Finlayson, Sci. Agr. 13: 404, 1933.

iWatson & Berger, Fla. Ext. B. 67: 113-114, 1932.

Williams, Hawaiian Ent. Soc. P. 7: 371-372, 1931.

Psocus spp.

nChapman, J. N.Y. Ent. Soc. 38: 235-280, 1930.

Psoquilla marginepunctata

Williams, Hawaiian Ent. Soc. P. 8: 8, 1932.

Psorophora

biMatheson, Mos. of North America: 187-197, 1929.

Psorophora ciliata

Bishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 5, 1933.

iJohnson, B. Bost. Soc. Nat. Hist. 55: 18-19, 1930.

Psorophora ciliata *Cont'd*

Shannon, P. Ent. Soc. Wash. 33: 144, 1931.

iStearns, MacCreary & Newhouse, Del. B. 181: 85, 1933.

Psorophora (Psorophora) cilipes

Shannon, P. Ent. Soc. Wash. 33: 144, 1931.

Psorophora (Grabhamia) cingulata

Shannon, P. Ent. Soc. Wash. 33: 145-146, 1931.

Psorophora columbiae

Bishopp, P. Ent. Soc. Wash. 34: 157, 1932.

Bishopp, Science n.s. 77: 116, 1933.

biGerry, Ann. Ent. Soc. Amer. 25: 41-42, 1932.

Stearns, MacCreary & Newhouse, Del. B. 181: 85, 1933.

Psorophora ferox

biGerry, Ann. Ent. Soc. Amer. 25: 42, 1932.

Shannon, P. Ent. Soc. Wash. 33: 144-145, 1931.

Psorophora (Psorophora) genumaculata

Shannon, P. Ent. Soc. Wash. 33: 144, 1931.

Psorophora (Janthinosoma) horridus

biMatheson, P. Ent. Soc. Wash. 36: 41-43, 1934.

Psorophora (Janthinosoma) lutzii

Shannon, P. Ent. Soc. Wash. 33: 145, 1931.

Psorophora posticata

Neiva & Gomez, Rev. de Agr. P. R. 24: 105, 1930.

Stearns, MacCreary & Newhouse, Del. B. 181: 86, 1933.

Psorophora signipennis

Mail, Mont. B. 288: 46-47, 1934.

Psorophora (Janthinosoma) varipes

Shannon, P. Ent. Soc. Wash. 33: 145, 1931.

Psoroptes bovis

iBoyd, Cal. Agr. Mo. B. 20: 500-501, 1931.

Psoroptes communis *Feurst. (Scab mite)**

Butler, Vet. Med. 25: 323-324, 1930.

iCameron, Can. Dept. Agr. B. 152: 20-21, 1931.

Marsh, Nat. Wool Grow. 21(3): 25-26, 1931.

iMartin, Vet. Med. 25: 316-319, 1930.

biMatheson, Med. Ent.: 76, 1932.

Mercer, Kans. Live Stock San. Comm. Bien. R. 14: 90-94, 1933.

Sanderson, Ins. Pests Farm, ed. 3: 511-513, 1931.

iSchwartz, USDA C. 148: 42-44, 1930.

Psoroptes communis cuniculi

iSchwartz & Shook, USDA FB 1568 rev.: 3-4, 1931.

Psoroptes communis equi

iSchwartz et al, USDA C. 148: 42-44, 1933.

Psoroptes ovis *Her. (Sheep scab mite)**

biBabcock & Black, Tex. B. 479, 1933, 34p.

iBoyd, Cal. Agr. Mo. B. 20: 498-500, 1931.

iGibbons, Cornell Vet. 20: 311-312, '30.

iHall, USDA FB 1330 rev. 7-9, 1932.

iHall, North Amer. Vet. 15(5): 58-61, 1934.

Marlatt, USDA Ent. R. f. 1930: 64-65.

Mercer, Kans. Live Stock San. Comm.

Bien. R. 14: 90-94, 1933.

iPaffman, Cal. Agr. Mo. B. 20: 540-543, 1931.

Psorosina hammondi (Riley) (Apple leaf skeletonizer)*

Eddy, Ky. St. Hort. Soc. Trans. 77: 82, 1932.

Eddy et al, Ky. B. 353: 216, 1934.

Psyche caterpillar, see Thyridopteryx ephemeraeformis**Psychoda**

iRiley & Johannsen, Med. Ent.: 196, 1932.

Scouller et al, Pub. Works 62(12): 56, Dec. 1931.

Psychoda albipennis

bMatheson, Med. Ent.: 400, 1932.

Psychoda albipunctata, see Telmatoscopus albipunctatus**Psychoda alternata**

Fair, Amer. City 49(10): 68, 1934.

Simpson, Amer. City 48(6): 13, 1933.

Psychoda sp.

Illingworth, Hawaiian Ent. Soc. P. 7: 378, 1931.

Psychodidae

Banks, Bklyn. Ent. Soc. B. 26: 227-228, 1931.

- biMatheson, Med. Ent.: 188-197, 1932.
- Psychomastax, P. psylla deserticola**
inHebard, Trans. Amer. Ent. Soc. 59:
363-370, 1933.
- Psychophagus omnivorus**
Breaky, Ann. Ent. Soc. Amer. 24: 43,
1931.
- Psylla acaciae-baileyanae**
Klyver, Cal. Agr. Mo. B. 21: 428-429,
1932.
- Psylla alni**
Klyver, Pan-Pac. Ent. 8: 17, 1931.
- Psylla americana**
Klyver, Ent. News 43: 71-72, 1932.
- Psylla astigmata**
Klyver, Pan-Pac. Ent. 8: 16, 1931.
Klyver, Ent. News 43: 74, 1932.
- Psylla brevistigmata**
Klyver, Ent. News 43: 73, 1932.
- Psylla buxi (L.) (Boxwood psyllid)***
Klyver, Ent. News 43: 75, 1932.
- biSoraci, N.J. Dept. Agr. C. 243: 51-52,
1934.
- Psylla floccosa**
Klyver, Ent. News 43: 73, 1932.
- Psylla mali (Schmidt) (Apple sucker)***
iKlyver, Can. Ent. 63: 114-115, 1931.
Pickett, N.S. Fr. Grow. Assoc. R. 67:
179-182, 1930; R. 70: 553-554, 1933;
R. 71: 40, 1934.
- iRoss, Can. Dept. Agr. B. 129: 49-50,
1930.
- Twinn, Ent. Soc. Ont. R. 64: 71, 1933;
R. 65: 120, 1934.
- Psylla minuta**
Klyver, Pan-Pac. Ent. 7: 158, 1931.
- Psylla parallela**
Klyver, Pan-Pac. Ent. 8: 16, 1931.
- †**Psylla pyricola (Foerst.) (Pear psylla)***
iBritton, Conn. B. 344: 142, 1933.
iCaesar, Ont. B. 356: 48-50, 1930.
Crosby, N.Y. St. Hort. Soc. P. 77: 11-
12, 1932.
- Dutton, Mich. St. Hort. Soc. R. 60: 32,
1931.
- Evans, Conn. Pom. Soc. P. 43: 64-65,
1933.
- bHartzell, J. Ec. Ent. 23: 190-197, 1930;
24: 71-77, 1931.
- iHartzell, N.Y. (Gen.) C. 129, 1932, 8p.
- bHartzell & Cambrell, J. Ec. Ent. 24:
66-71, 1931.
- Hartzell & Parrott, N.Y. (Gen.) B. 636:
23-24, 1933.
- Hedrick, N.Y. (Gen.) R. 50: 56-58,
1931; R. 51: 56, 1932.
- iKlyver, Can. Ent. 63: 112-114, 1931.
- Knight & Cleveland, J. Ec. Ent. 27:
279-289, 1934.
- iPettit & Hutson, Mich. C. B. 137: 5-7,
1931.
- Pickett, N.S. Fr. Grow. Assoc. R. 70:
54, 1933; R. 71: 41-42, 1934.
- iQuaintance & Siegler, USDA FB 1666:
74-75, 1931.
- biRose et al, USDA Misc. Pub. 168: 54,
1933.
- Ross et al, Ent. Soc. Ont. R. 63: 21-24,
1932.
- Ross et al, Sci. Agr. 13: 403, 1933.
- iSanderson, Ins. Pests Farm, ed. 3: 380-
381, 1931.
- Twinn, Ent. Soc. Ont. R. 64: 72, 1933;
R. 65: 120, 1934.
- Psylla striata**
Klyver, Ent. News 43: 73, 1932.
- Psylla trimaculata**
Klyver, Ent. News 43: 74, 1932.
- Psyllia, see Psylla**
- Psyllidae**
iKlyver, Can. Ent. 62: 167-175, 1930;
63: 111-115, 1931.
Klyver, Cal. Agr. Mo. B. 20: 691-697,
1931.
- iKlyver, Pan-Pac. Ent. 7: 131-143,
1931; 8: 11-17, 1931.
- Klyver, Ent. News 43: 7-12, 33-40, 70-
75, 1932.
- Psylliodes—Key**
Fall, Can. Ent. 65: 233-234, 1933.
- Psylliodes affinis and plant diseases**
Elze, Phytopath. 21: 677, 1931.
- Psylliodes credens**
nFall, Can. Ent. 65: 233-234, 1933.
- Psylliodes punctulata Melsh. (Hop flea
beetle)***
iCompton, Ill. C. 391: 9-10, 1932.
- Psylliodes verisimilis**
nFall, Can. Ent. 65: 232-233, 1933.
- Psyllobora nana**
Otero, Rev. de Agr. Cuba 15(5): 47, '34.
- Psylloneura williamsi**
inBanks, Hawaiian Ent. Soc. P. 7: 439,
1931.

- Psylloneura williamsi* Cont'd
Williams, Hawaiian Ent. Soc. P. 7: 371-372, 1931.
- Psyrassa brevicornis*
nLinsley, Ent. News, 45: 164-165, 1934.
- Ptenothrix aurata*
inMills, Collembola of Iowa: 107, 1934.
- Ptenothrix dubia*
inFolsom, Hawaiian Ent. Soc. P. 8: 74-75, 1932.
- Pterandrus rosa* (Natal fly)
[Kelsall], Maritime Farm 37(15): 6, '32.
Quayle, USDA Ent. E-283: 17, 1931.
- Pterocomma beulahensis*, *P. populea*
Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 928-929, 1931.
- Pteroloma nebrionides*
nBrown, Can. Ent. 65: 213-215, 1933.
- Pterolophia camura*
Swezey, Hawaiian Ent. Soc. P. 8: 383, 1934.
- Pteromalidae*
bFlanders, Ann. Ent. Soc. Amer. 28: 438-444, 1934.
- Pteromalus puparum*
iEssig, Hist. of Ent.: 331-333, 1931.
Swezey, Hawaiian Ent. Soc. P. 7: 360, 1931.
- Pteronarcella*
bClaassen, Plecoptera Nymphs of America: 34-37, 1931.
- Pteronarcys*
biClaassen, Plecoptera Nymphs of America: 27-34, 1931.
- Pteronarcys californica* (California salmon fly)
Essig, Pan-Pac. Ent. 8: 162, 1932.
- Pteronarcys shelfordi*
inFrison, Can. Ent. 66: 25-27, 1934.
- Pteronidea ribesii* (Scop.) (Imported currant worm)*
iBritton, Conn. B. 344: 103, 1933.
Chambers & Thompson, Wis. Dept. Agr. B. 123: 20, 1931; B. 145: 27-28, 1933.
Crosby et al, N.Y. (C.) Ext. B. 306: 18, 1934.
iDarrow & Detwiler, USDA FB 1398 rev.: 15, 1930; FB 1398 rev.: 15, '33.
Dean, Kans. St. Hort. Soc. Bien. R. 40: 148, 1930.
- iMunro & Riddle, N.Dak. C. 42 rev.: 43, 1933.
- iQuaintance, USDA FB 1398 rev.: 15, 1934.
- iQuaintance & Siegler, USDA FB 1666: 89-90, 1931.
- biSnodgrass, Smithson. Misc. Coll. 89(8): 106-110, 1933.
- Twinn, Ent. Soc. Ont. R. 64: 73, 1933; R. 65: 121, 1934.
- biWalden, Conn. B. 349: 426-427, 1933.
- Pteronidea ventralis* (Willow sawfly)*
Britton, Conn. B. 344: 177, 1933.
- biSoraci, N.J. Dept. Agr. C. 243: 42-43, 1934.
- Pteronox ribesii*, see *Pteronidea ribesii*
- Pterophoridae*
Braun, Can. Ent. 62: 122-124, 1930.
- Pterophorus*—Key
Forbes, N.Y. Acad. Sci. Sci. Surv. P. R. 12: 76, 1930.
- Pterophorus buscki*
nMcDunnough, Can. Ent. 65: 206, 1933.
- Pterophorus delawarensis*
Clarke, Can. Ent. 66: 171, 1934.
- Pterophylla camellifolia*
iSnodgrass, Smithson. Sci. Ser. 5: 43-49, 1930.
- iWatson & Berger, Fla. Ext. B. 67: 120-121, 1932.
- Pteroporus subtruncatus*
Pemberton, Hawaiian Ent. Soc. P. 8: 376, 1934.
- Pterostichus californicus*
Pemberton, Hawaiian Ent. Soc. P. 8: 388, 1934.
- Pterostichus (Monoferonia) carolinus*
nDarlington, Psyche 38: 162-163, 1931.
- Pterostichus fernquisti*
inWickham, Ann. Ent. Soc. Amer. 24: 318, 1931.
- Pterostichus (Monoferonia) mancus plethorus*
nDarlington, Psyche 38: 161-162, 1931.
- Pterostichus (Monoferonia) primus*
nDarlington, Psyche 38: 159, 1931.
- Pterostichus (Gastrellarius) uncarum*
nDarlington, Psyche 38: 155-159, 1931.
- Pteryogota*
Crampton, Ent. News 42: 130-136, '31.
- Ptilium* sp.
Davis, P. Ent. Soc. Wash. 36: 269, '34.

- Ptilodexia tibialis**
iWolcott, Ec. Ent. of West Indies: 114-115, 1933.
- Ptilosphen spp.**
nCresson, Trans. Amer. Ent. Soc. 56: 346-348, 1930.
- Ptinid beetle in cardboard**
Swezey, Hawaiian Ent. Soc. P. 7: 379, 1931.
- Ptinus fur L. (White-marked spider beetle)***
McDaniel, Mich. Quar. B. 16: 169, '34.
- Ptinus tectus**
Essig, J. Ec. Ent. 26: 734-735, 1933.
Hatch, Bklyn. Ent. Soc. B. 28: 200-202, 1933.
Hyslop, J. Ec. Ent. 27: 562, 1934.
- Ptinus villiger (Hairy spider beetle)***
Gray, Ent. Soc. Ont. R. 65: 59-66, '34.
Gray, Que. Soc. Prot. Pl. R. 25/26: 50, 1934.
Twinn, Ent. Soc. Ont. R. 64: 79-80, 1933.
- Ptiolina spp.**
nCurran, Can. Ent. 63: 249-251, 1931.
- Ptochiomera castanea, mumfordi**
inVan Duzee, Bernice P. Bishop Mus. B. 98: 186-187, 1932.
- Ptomaphagus lator, piperi, schwarzi**
inHatch, J. N.Y. Ent. Soc. 41: 204-206, 1933.
- Ptychanatis axyridis**
Essig, Hist. of Ent.: 287, 1931.
- Ptychomyia remota**
Muir, Hawaiian Pl. Rec. 35: 85-87, '31.
- Pubilia modesta brunnea**
nBall, P. Biol. Soc. Wash. 46: 28, 1933.
- Pulex avium**
iBuckley & Bunyea, USDA FB 1652 rev., 66, 1933.
Mayo, Fla. Dept. Agr. B. 34 n.s.: 57-58, 1930.
- Pulex canis**
nStiles, U. S. Pub. Health R. 45: 1308, 1930.
- Pulex irritans L. (Human flea)***
Cecil, Text-book of Med. ed 3: 514, '34.
Eskey, U. S. Pub. Health R. 45: 2095-2097, 1930.
Ewing, Amer. Nat. 65: 363-369, 1931.
iHall, USDA C. 338 rev.: 16-17, 1934.
- iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 45-47, 1934.
- biMatheson, Med. Ent.: 421-422, 1932.
Ormsby, Pract. Treat. Dis. Skin ed. 4: 1058-1060, 1934.
Schwartz & Shook, USDA FB 1568 rev.: 10, 1931.
- Pulex penetrans**
iOrmsby, Pract. Treat. Dis. Skin ed. 4: 1070-1071, 1934.
- Pulex serraticeps**
Riley & Johannsen, Med. Ent.: 390-391, 1932.
- Pulvinaria acericola (False cottony maple-leaf scale)**
McDaniel, Mich. C. B. 133: 11, 1930.
- Pulvinaria amygdali Ckll. (Cottony peach scale)***
Ross & Putnam, Ent. Soc. Ont. R. 64: 39, 1933.
- Pulvinaria floccifera**
iMcDaniel, Mich. Sp. B. 214: 71, 1931.
- Pulvinaria innumerabilis, see Pulvinaria vitis**
- Pulvinaria psidii (Green shield scale)***
iWatson & Berger, Fla. Ext. B. 67: 37, 1932.
- Pulvinaria pyriformis, see Protopulvinaria pyriformis**
- Pulvinaria vitis (L.) (Cottony maple scale)***
iBritton, Conn. B. 344: 127, 1933.
Chambers & Thompson, Wis. Dept. Agr. B. 123: 39, 1931; B. 145: 49-50, 1933.
iDavis, Ind. Ext. B. 168: 24-26, 1930.
iDrake & Guthrie, Iowa Dept. Agr. YB 31: 27, 1931.
iMcDaniel, Mich. C. B. 133: 9-10, 1930.
iNewcomer, USDA C. 270: 12-13, 1933.
Twinn, Ent. Soc. Ont. R. 64: 77, 1933.
- Punkies, see Culicoides biguttatus**
- *Purple scale, see Lepidosaphes beckii**
- Purpuricenus axillaris**
Knull, Ent. News 45: 210, 1934.
- Purpuricenus humeralis**
iGoldman, Trans. Amer. Ent. Soc. 59: 93-94, 1933.
- *Puss caterpillar, see Megalopyge opercularis (S. & A.)**
- *Putnam's scale, see Aspidiotus ancylus**

- Puto yuccae**
Hutchison, Cal. Agr. Mo. B. 19: 545, 1930.
- Pycnoderes quadrimaculatus**
Illingworth, Hawaiian Ent. Soc. P. 7: 466, 1931; P. 8: 226, 394, 1933.
Pemberton, Hawaiian Ent. Soc. P. 8: 242, 1933.
- Pycnopalpa bicordata**
Hebard, Trans. Amer. Ent. Soc. 58: 314-315, 1932.
- Pycnoscelus surinamensis (L.) (Surinam roach)***
Illingworth, Hawaiian Ent. Soc. P. 7: 461, 1931.
Pyrke, N.Y. Dept. Agr. & Markets R. f. 1929: 73, 1930.
Tissot, Fla. R. 45: 77, 1931.
Watson, Fla. R. f. 1929: 58.
Watson, Fla. R. f. 1930: 71.
- Pycnosomops**
nTownsend, Ent. News 45: 277, 1934.
- Pygoctenucha funerea—New Mexico**
Lemmer, Bklyn. Ent. Soc. B. 27: 177, 1932.
- Pygolampis, P. atrolineata**
nBarber, Ent. Amer. n.s. 10: 177-179, 1930.
- Pygothrips breviceps, zeteki**
nHood, J. N.Y. Ent. Soc. 41: 419-420, 1933.
- Pyalis farinalis L. (Meal moth)***
iBack & Cotton, USDA FB 1260 rev.: 18-20, 1930.
Davis, P. Ent. Soc. Wash. 36: 269, '34.
Donohoe & Barnes, J. Ec. Ent. 27: 1071-1072, 1934.
Gray, Ent. Soc. Ont. R. 65: 68, 1934.
McDaniel, Mich. Quar. B. 16: 172, '34.
- Pyalis mauritialis**
Bryan, Hawaiian Ent. Soc. P. 8: 237, 1933.
- Pyrausta ainsliei (Smartweed borer)***
bSchopp, J. Kans. Ent. Soc. 4: 25-38, '31.
- Pyrausta gracialis**
Keifer, Cal. Agr. Mo. B. 20: 617, 1931.
- †Pyrausta nubilalis (Hbn.) European corn borer)***
Bailey, Vt. Com. Agr. Bien. R. 15: 30-32, 1930; R. 17: 70-71, 1934.
iBailey, Vt. Dept. Agr. Insect Control Div. C. 10, 1934, 4p.
- Baldwin, N.Y. Dept. Agr. R. f. 1932: 75-76, 1933; R. f. 1933: 101, 1934.
Barrett, Ill. Agr. 35: 32-33, 1930.
- iBartley & Scott, USDA C. 197, 1931. 22p.
- Berly, S.C. C. 43: 23, 1930.
- iBottger & Kent, J. Ec. Ent. 24: 372-379, 1931.
- iBritton, Conn. Veg. Grow. Assoc. R. 17: 50-51, 1930.
- Britton, Conn. C. 73: 7, 1931.
- Britton, Conn. Veg. Grow. Assoc. R. 18: 40-43, 1931; R. 21: 74-76, 1934.
- iBritton, Conn. B. 344: 99, 1933.
- Britton et al, Conn. B. 327: 557-564, 1931; B. 338: 553-558, 1932; B. 349: 407-411, 1933; B. 360: 433-440, '34.
- Burdette, N.J. St. Hort. Soc. P. f. 1931: 162-163.
- Caesar, Ent. Soc. Ont. R. 60: 54-57, 1930; R. 61: 43-48, 1931; R. 62: 89-91, 1932; R. 63: 41-45, 1932; R. 64: 9-12, 1933; R. 65: 85-87, 1934.
- iCaesar, Ind. Corn Grow. Assoc. R. 31: 39-43, 1931.
- iCaesar, Ont. Dept. Agr. B. 359: 40-42, 1931.
- Caesar, Ont. Agr. Exper. Union R. 52: 88-91, 1931.
- Caesar, Ind. Stencil B. 5: 3-8, 1931.
- bCaesar & McLaine, J. Ec. Ent. 24: 512-517, 1931.
- iCaesar & Thompson, Ont. Dept. Agr. B. 358: 1-19, 1931.
- iCaffrey, Cal. Agr. Mo. B. 19: 271-274, 1930.
- Caffrey, J. Ec. Ent. 25: 696-706, 1932.
- Caffrey & Worthley, J. Ec. Ent. 26: 85-102, 1933.
- Chambers, Wis. Dept. Agr. B. 115: 57-59, 1931; B. 141: 87-88, 116-117, '33.
- Chambers, Wis. Dept. Agr. Ent. C. '32.
- Christie, Ont. Agr. Coll. R. 59: 103-104, 1934.
- biClark, USDA TB 455, 1934. 37p.
- Compton, Ill. C. 391: 21-23, 1932.
- Cory, Md. Agr. Soc. R. 17: 255-257, 1933.
- Crosby & Schupp, N.Y. (C.) Ext. B. 206 rev.: 92-95, 1933; B. 278: 74-77, 1934.

- Davis, Ind. Acad. Sci. P. 39: 293-294, 1930.
- Davis, Canner 72(14): 20, 1931.
- Davis, Ind. Acad. Sci. P. 40: 309, 1931.
- Davis, Ind. Corn. Grow. Assoc. R. 31: 37-38, 1931.
- Davis, Ind. Stencil B. 5: 1-2, 1931.
- Davis, Ind. Acad. Sci. P. 43: 196, 1933.
- iDoane, Common Pests: 237-239, 1931.
- Dohanian, Psyche 41: 214-220, 1934.
- iDrake, Iowa Dept. Agr. YB 30: 166-167, 1930; YB 31: 153-155, 1931.
- iDustan, Can. Dept. Agr. Ent. B. 32: 54-55, 1932.
- biEllinger, Internat. Corn. Borer Invest. Sci. R. 3, 1930. 174p.
- iFicht, Ind. Acad. Sci. P. 40: 335-338, 1931.
- iFicht, Ind. Corn. Grow. Assoc. R. 31: 38-39, 1931.
- Ficht, Ind. Stencil B. 5: 9-12, 1931.
- iFlint, Ill. C. 384, 1932. 4p.
- iFlint et al, Ill. C. 350, 1930. 4p.
- Friend, Conn. Veg. Grow. Assoc. R. 19: 27-28, 1932; R. 20: 68, 1933.
- Gibson, Can. Hort. Fr. & Truck ed. 53: 49-50, 1930.
- iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 52-53, 1934.
- Gilbert, Mass. Dept. Agr. R. f. 1929/1930: 18-19; R. f. 1930/1931: 14-15; R. f. 1931/1932: 16-17; R. f. 1932/1933: 17-18.
- Glenn, Ill. Dept. Agr. R. 15: 59-60, 1932; R. 17: 64-65, 1934.
- Gray, USDA Off. Rec. 10: 343, 1931.
- iGray & Merrill, USDA YB f. 1931: 156-160.
- iHeadlee, N.J. Agr. 12(8): 10-11, 1930.
- Hedrick, N.Y. (Gen.) R. 49: 18-19, 68-69, 1930; R. 50: 60-62, 1931; R. 51: 71-73, 1932; R. 53: 49, 1934.
- biHergula, Internat. Corn Borer Invest. Sci. R. 3: 121-129, 1930.
- Hervey, J. Ec. Ent. 23: 154-157, 1930.
- iHervey, N.Y. (Gen.) B. 603, 1932. 28p.
- Hoch & Peck, Kans. Agr. Student 10: 51-52, 59-60, 1930.
- Howard, Hist. of Appl'd Ent.: 534, '30.
- Howard, Insect Menace: 138-141, '31.
- Huber & Neiswander, Ohio B. 446: 92-93, 1930.
- Huber & Neiswander, J. Ec. Ent. 24: 393, 1931.
- Huber et al, Ohio B. 446: 90, 1930; B. 497: 81-85, 1932; B. 516: 45-51, '33.
- Hutyra, Internat. Corn Borer Invest. Sci. R. 3: 156-157, 1930.
- Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 207-208, 1930.
- Kelsheimer & Neiswander, Ohio B. 470: 79-84, 1931.
- Kendall, N.H. B. 250: 20, 1930.
- Kennedy, Ont. Agr. Coll. & Exp. Farm R. 58: 136, 1932.
- Kunike, Internat. Corn Borer Invest. Sci. R. 3: 58-63, 1930.
- Ladd, N.Y. (Gen.) R. 52: 69-70, 1933.
- iLagloire, Que. Dept. Agr. R. f. 1932-1933: 111-114.
- Lavoie, Que. Dept. Agr. R. f. 1929-1930: 150-152; R. f. 1930-1931: 164-166; R. f. 1932: 152-153.
- Maheux, Que. Min. de l'Agr. B. 118: 19-20, 1933.
- Marlatt, N.Y. Farmers' P. f. 1929-1930: 20-21.
- Marlatt, USDA Ent. R. f. 1930: 21-22; R. f. 1931: 26-27; R. f. 1932: 13; R. f. 1933: 15-16.
- iMarston & Dibble, Mich. Sp. B. 204, 1930, 47p.
- iMayer, Internat. Corn Borer Invest. Sci. R. 3: 153-173, 1930.
- biMex. Agr. & Fomento. Principales Plagas: 64-65, 1930.
- Miles, Ind. Stencil B. 5: 13-15, 1931.
- Mohler et al, Kans. Ent. Comm. Quarantine—Q. 4: 6-7, 1931.
- Mumford, Ill. R. 43: 136-137, 1930; R. 44: 139, 1931; R. 46: 137-138, 1933.
- Nagy, Internat. Corn Borer Invest. Sci. R. 3: 173-174, 1930.
- iNeiswander & Herr, J. Ec. Ent. 23: 938-945, 1930.
- Neiswander, Polivka & Herr, Ohio B. 446: 90-91, 1930.
- O'Kane, N.H. B. 262: 15, 1932.
- O'Kane, N.H. Agr. R. f. 1931-1932: 117.
- Patch, USDA C. 275, 1933. 8p.
- Pettit, Mich. Ent. R. f. 1930: 4.
- Pettit, Mich. Ext. B. 117: 9, 1931.

***Pyrausta nubilalis* (Hbn.) Cont'd**

- Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 2(10): 4, 1931.
 Powell, Mich. St. Dept. Agr. Bien. R. 4: 38, 1930.
 Pyrk, N.Y. Dept. Agr. R. f. 1929: 71-72, 1930; R. f. 1930: 59, 1931; R. f. 1931: 72-73, 1932.
 Reed, Ind. C. 178: 3-11, 1931.
 Rosenfeld, J. Ec. Ent. 26: 1171-1172, 1933.
 Roubaud, Internat. Corn Borer Invest. Sci. R. 3: 161-162, 1930.
 iSanderson, Ins. Pests Farm ed. 3: 109-119, 1931.
 bSavage, J. Ec. Ent. 23: 936-938, 1930.
 Savage, Polivka & Kelsheimer, Ohio B. 446: 91, 1930.
 Scott & Patch, USDA C. 281, 1933. 6p.
 Skinner, Ind. R. 46: 27, 1933; R. f. 1934: 34.
 Skinner & Coleman, Ind. Ext. R. 22: 51, 1933.
 iSkinner & Reed, Ind. R. 42: 38-39, 1929; R. 44: 28-30, 1931; R. 45: 36-37, 1931.
 Slate, Conn. B. 357: 126, 1934.
 Smith, USDA Off. Rec. 11: 212, 1932.
 Stirrett, Ent. Soc. Ont. R. 61: 48-52, 1931.
 Strong, USDA PQCA R. f. 1930: 19-24; R. f. 1931: 16-25.
 Strong, USDA Ent. R. f. 1934: 8.
 Symons, Md. Ext. R. 18: 65, 1933.
 Symons, Md. Univ. & St. Bd. Agr. Bien. R. f. 1930/1932: 100, 1933.
 Turney, N.B. Prov. Dept. Agr. R. f. 1929: 101-103, 1930.
 Twinn, Que. Soc. Prot. Pl. R. 23/24: 150-151, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 66, 1933; R. 65: 115-116, 1934.
 Ulman, Ind. YB f. 1931: 798-802.
 Ulman, Gilbert & Yarian, Ind. Dept. Conserv. R. 14: 35-38, 1933.
 iVouk, Internat. Corn Borer Invest. Sci. R. 3: 113-115, 1930.
 Wallace, Ind. Dept. Conserv. R. 11: 37-41, 1929.
 Wallace, Ind. YB f. 1930: 464-468; YB f. 1932: 287-291; YB f. 1933: 363-365, 1934; YB f. 1934: 606-609.

- Wallace, Ind. St. Dept. Conserv. Div. Ent. R. f. 1931: 2-6, 1932.
 Wallace et al, Ind. Dept. Conserv. R. 14: 35-39, 1932; Ent. R. f. 1933: 4-6.
 Weir, Can. Min. Agr. R. f. 1930/1931: 131; R. f. 1931/1932: 172.
 Weiss, N.J. St. Dept. Agr. R. 16: 157-158, 1931; R. 17: 115, 1932; R. 18: 108, 1933; R. 19: 156-157, 1932.
 iWilkinson, Conn. (Storrs) Ext. B. 196: 19, 1933.
 Williams, Ohio Ext. News 15(8): 1-2, 1930.
 Williams, Ohio B. 532: 44-45, 1932.
 Williams, J. Ec. Ent. 27: 719, 1934.
 Worthley, Penn. B. 258: 38-39, 1930.
 Worthley, Penn. B. 266: 31-32, 1931.
 Worthley & Brewer, J. Ec. Ent. 24: 507-512, 1931.
 iZappe, Conn. C. 92: 45-49, 1933.
***Pyrausta nubilalis*—Arsenic torches**
 iMarchlewski et al, Internat. Corn Borer Invest. Sci. R. 3: 74-80, 1930.
***Pyrausta nubilalis*—Clean-up**
 Britton, J. Ec. Ent. 26: 604-606, 1933.
 iHerrick, N.Y. Dept. Agr. & Markets B. 240: 69, 1930.
 iScott, USDA C. 194, 1931. 15p.
***Pyrausta nubilalis*—Correlation of**
 bKelsheimer & Polivka, J. Ec. Ent. 24: 386-388, 1931.
***Pyrausta nubilalis*—Cultural control**
 iCollier & Robertson, Ind. B. 389, 1934. 36p.
 Ficht, J. Ec. Ent. 24: 380-386, 1931.
 bFicht, J. Ec. Ent. 25: 878-884, 1932.
 biHervey & Hartzell, J. Ec. Ent. 24: 183-188, 1931.
 iMinnehan, Mich. Quar. B. 12: 152-155, 1930.
 Myers, USDA Off. Rec. 11: 140, 1932.
 iMyers, USDA FB 1681, 1932. 26p.
***Pyrausta nubilalis*—Diseases—Bacterial**
 Chorine, Internat. Corn Borer Invest. Sci. R. 3: 94-98, 1930.
 iHusz, Internat. Corn Borer Invest. Sci. R. 3: 91-93, 1930.
 Metalnikov et al, Internat. Corn Borer Invest. Sci. R. 3: 148-151, 1930.
***Pyrausta nubilalis*—Diseases—Fungous**
 bBartlett & Lefebvre, J. Ec. Ent. 27: 1147-1157, 1934.

- Hergula, Internat. Corn Borer, Invest. Sci. R. 3: 130-141, 1930.
- biLefebvre, Phytopath. 21: 124-125, 1115-1128, 1931.
- biWallengren, Internat. Corn Borer Invest. Sci. R. 3: 64-73, 1930.
- Pyrausta nubilalis—Distribution**
- iSlate, Conn. B. 322: 120-121, 1931.
- Strong, USDA Off. Rec. 10: 59, 1931.
- Pyrausta nubilalis—Drought**
- Flint et al, Ill. C. 367, 1931. 8p.
- Quaintance, USDA Off. Rec. 9(37): 8, 1930.
- Pyrausta nubilalis—Ecology**
- iHuber & Polivka, J. Ec. Ent. 26: 755-758, 1933.
- Pyrausta nubilalis—Eggs—Laboratory Production**
- Patch & Peirce, J. Ec. Ent. 26: 196-204, 1933.
- Springer, Penn. Acad. Sci. P. 4: 99-102, 1930.
- Pyrausta nubilalis—Flight**
- iStirrett, Ent. Soc. Ont. R. 60: 46-51, '30.
- iStirrett, Beall & Lindsay, Ent. Soc. Ont. R. 64: 12-31, 1933.
- Pyrausta nubilalis—Host plants**
- bDicke, J. Ec. Ent. 25: 868-878, 1932.
- Pyrausta nubilalis—Insecticides**
- biBatchelder & Questel, J. Ec. Ent. 24: 1152-1167, 1931.
- Dibble, J. Ec. Ent. 26: 893-895, 1933.
- Ficht, J. Ec. Ent. 26: 747-754, 1933.
- iKotlan & Varga, Internat. Corn Borer Invest. Sci. R. 3: 81-90, 1930.
- Simanton et al, J. Ec. Ent. 24: 395-404, 1931.
- Pyrausta nubilalis—Mechanical devices**
- iGray, Agr. Engin. 11: 361-362, 1930; 12: 248-249, 1931.
- Gray, USDA YB f. 1932: 426-428.
- Kennedy, Ont. Agr. Coll. & Exp. Farm R. 56: 120-121, 1930.
- iReed, USDA C. 132, 1930. 50p.
- iReed & Humphries, USDA FB 1662, 1931. 16p.
- iWileman, Agr. Engin. 11: 309-310, '30.
- biWorthley & Blasingame, Penn. B. 284, 1933. 19p.
- Pyrausta nubilalis—Mortality**
- Hergula, Internat. Corn Borer Invest. Sci. R. 3: 142-147, 1930.
- Pyrausta nubilalis—Parasites**
- iBaker & Arbuthnot, J. Ec. Ent. 24: 444-449, 1931.
- biBaker & Jones, USDA TB 460, 1934. 26p.
- bBaker & Mathes, J. Ec. Ent. 24: 404-416, 1931.
- biBradley & Burgess, USDA TB 441, 1934. 15p.
- biCartwright, USDA C. 289, 1933. 13p.
- biClark, USDA TB 455: 17-25, 1934.
- Crowell, Psyche 39: 102, 1932.
- Edwards, Guam R. f. 1930: 3, 23, 25, 1931.
- Ellinger, Internat. Corn Borer Invest. Sci. R. 3: 39-41, 1930.
- Hergula, Internat. Corn Borer Invest. Sci. R. 3: 128, 147, 1930.
- Lobdell, Fla. R. f. 1933: 170.
- iMumford, Ill. R. 43: 136-137, 1930.
- Parker, P. Ent. Soc. Wash. 33: 93-103, 1931.
- biParker, USDA TB 230, 1931. 63p.
- biSachtleben, Internat. Corn Borer Invest. Sci. R. 3: 42-57, 101-112, 1930.
- biSmith, USDA TB 331, 1932. 46p.
- biThompson & Parker, J. Agr. Res. 40: 321-345, 1930.
- Vance, Ann. Ent. Soc. Amer. 25: 121-135, 1932.
- biVance, USDA TB 294, 1932. 48p.
- iVandenberg, Guam R. f. 1928: 26-27, 1930; R. f. 1929: 16, 1931; R. f. 1930/1932: 20-22, 1933.
- Weir, Can. Min. Agr. R. f. 1931/1932: 177.
- Wishart & Thomas, Ent. Soc. Ont. R. 63: 39-41, 1932.
- Wishart & Thomas, Sci. Agr. 13: 405, 1933.
- biWishart & Van Steenburgh, Can. Ent. 66: 121-125, 1934.
- Can. Dept. Agr. Ent. Br. News Letter 14(1/2): 6, 1933.
- J. Ec. Ent. 25: 1119, 1932.
- Pyrausta nubilalis—Physiological change in corn plant**
- Polivka, J. Ec. Ent. 24: 394-395, 1931.
- Pyrausta nubilalis—Plowing**
- iBartley, USDA C. 165, 1931. 28p.
- iMerrill, USDA C. 321, 1934. 10p.
- Mumford, Ill. R. 43: 204-207, 1930.

***Pyrausta nubilalis*—Quarantine**

- iBritton, Conn. C. 68, 1930. 7p.; C. 72: 58, 1930; C. 76: 33-40, 1931; C. 85: 38-40, 1932.
 Case & Mayes, Mo. St. Bd. Agr. B. 28(2): 17-18, 1930.
 Fleury, Cal. Agr. Mo. B. 22: 528, 1933.
 Hoyt, USDA PQCA SRA 108: 94-100, 1931.
 Hoyt, USDA BPQ R. f. 1934: 18-20.
 Hyde, USDA PQCA Q-43, July, 1932.
 Hyde, USDA Off. Rec. 11: 44, 1932.
 Kennedy, Ont. Agr. Coll. & Exp. Farm R. 56: 119, 1930.
 McLaughlin, W.Va. St. Dept. Agr. Bien. R. 11: 39, 1934.
 Marvin, USDA PQCA Q-43, 1931. 3p.
 Strong, USDA PQCA R. f. 1930: 19-24; R. f. 1931: 16-26; R. f. 1932: 6-11; R. f. 1933: 7-10.
 Strong, USDA BPQ Q-41: 1, 1933.
 J. Ec. Ent. 25: 938-939, 1932; 26: 521, 1933.
 USDA Off. Rec. 9(2): 4, 9(33): 8, 9(35): 8, 1930.
 USDA PQCA Q-43, 1931. 8p.
 USDA PQCA SRA 108: 132-133, 1931.
 USDA YB f. 1934: 87-88.

***Pyrausta nubilalis*—Quarantine—Conn.**

- Britton, Zappe & Johnson, Conn. B. 349: 408, 1933.

***Pyrausta nubilalis*—Quarantine—Missouri**

- Sullivan, Mo. St. Bd. Agr. B. 28(2): 17-18, 1930.

***Pyrausta nubilalis*—Quarantine—New York**

- Pyrke, N.Y. Dept. Agr. & Markets C. 426, 1931. 8p.

***Pyrausta nubilalis*—Quarantine—Quebec**

- iLagloire, Que. Dept. Agr. R. f. 1932-1933: 111-114.

- Lavoie, Que. Dept. Agr. R. f. 1933-1934: 104.

***Pyrausta nubilalis*—Report of Committee**

- J. Ec. Ent. 24: 24-25, 1931.
 J. Ec. Ent. 25: 12-14, 1932.

***Pyrausta nubilalis*—Resistant corn**

- Ellinger & Chorine, Internat. Corn Borer Invest. Sci. R. 3: 99-100, 1930.
 Hughes, Country Gentl. 95(3): 160, 170, 1930.

- iMarston, Amer. Soc. Agron. J. 22: 986-992, 1930.

- Marston, Ent. Soc. Ont. R. 60: 51-54, 1930.

- iMarston, Amer. Soc. Agron. J. 23: 960-964, 1931.

- iMarston, Mich. Quar. B. 15: 264-268, 1933.

- bMarston & Mahoney, Amer. Soc. Hort. Sci. P. 29: 472-476, 1932.

- Meyers, Ohio B. 446: 32-34, 1930.

- Mumford, Ill. R. 42: 138-151, 1929; R. 45: 127, 1932.

- iRoubaud, Internat. Corn Borer Invest. Sci. R. 3: 1-27, 1930.

- iVouk, Internat. Corn Borer Invest. Sci. R. 3: 116-120, 1930.

- Purdue Agr. 26: 143, 1932.

***Pyrausta nubilalis*—Spread**

- iBritton & Zappe, Conn. B. 315: 563-568, 1930.

- iNeiswander & Savage, J. Ec. Ent. 24: 389-392, 1931.

- Smith, W.Va. Dept. Agr. Bien. R. 9: 52, 1930.

- Sullivan, Mo. St. Bd. Agr. B. 28 (12-B (Pt. 2)): 53, 1930.

***Pyrausta nubilalis* and temperature**

- iBatchelder & Questel, USDA TB 395, 1933. 13p.

Pyrethrum*, see Insecticides—*Pyrethrum*; Spray materials—*Pyrethrum*, also major pests, subhead, *Pyrethrum***Pyrgauchenia cornuta***

- nGoding, Amer. Mus. Nov. 421: 26, '30.

Pyrgus notatus

- Williams & Bell, Trans. Amer. Ent. Soc. 60: 125-126, 1934.

Pyrgus orcus*, *syrichtus

- Williams & Bell, Trans. Amer. Ent. Soc. 56: 135, 136, 1930.

****Pyriform scale*, see *Protopulvinaria pyri-formis* Ckll.*****Pyroderces rileyi***

- Back, USDA FB 1029 rev.: 18, 1931.

- Back & Cotton, USDA FB 1260 rev.: 13, 1930.

- iCartwright, S.C. B. 266: 7-11, 1930.

- Hagan, Hawaiian Ent. Soc. P. 7: 392-393, 1931.

***Pyrophæna*—Key—Females**

- Curran, BAMNH 61: 66-68, 1931.

Pyrophorus

bHarvey, J. Gen. Physiology 15: 139-145, 1931.

Pyrophorus luminosus

iWolcott, Ec. Ent. of West Indies: 115-116, 1933.

J. Ec. Ent. 26: 1003-1004, 1933.

Pyrophorus sp.

Loftin, Asoc. Tecn. Azucar, Cuba P. 4: 56-57, 1930.

Pyrota tenuicostata

Smyth, J. Kans. Ent. Soc. 7: 107-108, 1934.

Pyrria umbra (Rose budworm)

Gibson, Can. Dept. Agr. B. n.s. 99 rev.: 11, 1934.

Pyrrophygge spp.

nBell, J. N.Y. Ent. Soc. 39: 420-490, '31.

niBell, Ent. News 43: 68-70, 1932.

niBell, Bklyn. Ent. Soc. B. 29: 89-90, '34.

Pyrrophyginae

iBell, J. N.Y. Ent. Soc. 39: 417-490, 1931; 41: 265-295, 481-528, 1933; 42: 393-440, 1934.

Pythonides eminus

inBell, Amer. Mus. Nov. 745: 1-2, 1934.

Pythonides herennius

Williams & Bell, Trans. Amer. Ent. Soc. 60: 279, 1934.

Pythonides juxta

inBell, Amer. Mus. Nov. 745: 2-4, 1934.

Quadrus cerialis, portulana, u-lucida

Williams & Bell, Trans. Amer. Ent. Soc. 60: 275-278, 1934.

Quail insects

Stoddard, Bobwhite Quail: 315-323, 1931.

†Quarantine

Eisenhower & Chew, USDA Misc. Pub. 88: 17, 1930.

Hadley, J. Ec. Ent. 23: 508-590, 1930.

Hecke, Cal. Agr. Mo. B. 20: 111-118, 1931.

Howard, Insect Menace: 289-305, '31.

iJohnston, USDA YB f. 1934: 142-144.

Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 4-6, 14; R. f. 1932: 41-46.

Weir, Can. Min. Agr. R. f. 1932: 170-171.

J. Ec. Ent. 26: 311, 1933.

Miss. St. Pl. Bd. Quar. B. 10(1): 20, 1930; B. 10(4): 14-15, 1931; B. 11(3): 18, 1931.

Quarantine—For specific insect see name of insect with subdivision (e.g. *Carpocapsa pomonella*—Quarantine)

Quarantine—Arizona

Campbell, Cal. Agr. Mo. B. 23: 265-267, 1934.

J. Ec. Ent. 25: 1122, 1932.

Quarantine—Boards—Arkansas

Millar, Ark. St. Pl. Bd. C. 1, 1934, 10p.

Quarantine—Boards—Central

Chambers, J. Ec. Ent. 25: 490-491, '32.

Ulman, J. Ec. Ent. 26: 610, 1933.

Quarantine—Boards—Eastern plant

Headlee, J. Ec. Ent. 25: 490, 1932.

Quarantine—Boards—Federal & state

Headlee, J. Ec. Ent. 24: 538-544, 1931.

Quarantine—Boards—Florida

Adams, Fla. Grow. 40(6): 16, 1932.

Quarantine—Boards—Organization

Dean, Kans. St. Hort. Soc. Bien. R. 40: 128-137, 1930.

Quarantine—Boards—Southern plant

Bentley, J. Ec. Ent. 23: 567-570, 1930.

J. Ec. Ent. 27: 590, 1934.

Quarantine—Boards—Western plant

Fleury, Cal. Dept. Agr. Sp. Pub. 119, 1933. 84p.

Fleury, J. Ec. Ent. 27: 590-594, 1934.

Jacobsen, J. Ec. Ent. 23: 570-574, 1930; 24: 1117-1118, 1931.

Cal. Agr. Mo. B. 23: 229-348, 1934.

Quarantine—Border stations—California

Fleury, Cal. Cit. 15: 520-521, 1930.

Fleury, Cit. Leaves 10(6): 1-2, 1930.

Cal. Cit. 16(8): 398, 1931.

Quarantine—California

Fleury, Cit. Leaves 10(9): 6, 29, 33, '30.

Fleury, Cal. Agr. Mo. B. 21: 540-555, 1932.

Fleury, Cal. Sp. Pub. 114, 1932. 42p.

Fleury, Cal. Agr. Mo. B. 23: 483-500, 1934.

Mackie, Cal. Agr. Mo. B. 22: 463-468, 1933.

Ryan, Diamond Walnut News 12(6): 5, 1930; 15(2): 8-9, 1933; 15(4): 8, '33.

Silvestri, Cal. Cit. 15: 574, 1930.

Cal. Agr. Mo. B. 20: 288-292, 1931.

Quarantine—California *Cont'd*

Cal. Dept. Agr. Sp. Pub. 106, 1930. 41p.
J. Ec. Ent. 27: 869, 1934.

Quarantine—Canada

McLaine, Cal. Agr. Mo. B. 23: 333-335, 1934.
Weir, Can. Min. Agr. R. f. 1931/1932: 170-171.
Wood, Cal. Dept. Agr. Sp. Pub. 119: 47-52, 1933.

Quarantine—Comm. Amer. Assoc. Nurserymen, Report

Meehan, P. Amer. Assoc. Nurserym. 56: 142-146, 1931; 57: 149-154, 1932; 58: 147-150, 1934.

Quarantine—Connecticut

Britton, Conn. C. 85: 35-43, 1932.

Quarantine—Employees—Qualifications

Wallace, J. Ec. Ent. 23: 487-490, 1930.

Quarantine—Florida

iMontgomery, Cit. Ind. 10(3): 14, 1929.
Newell, Fla. St. Pl. Bd. Bien. R. 9: 27, 1933.

Quarantine—Hawaii

Dezell, Cal. Fr. Grow. Exch. R. f. 1930: 18.
Whitney, Hawaiian Ent. Soc. P. 7: 342, 1931.

Quarantine—Idaho

Dean, Ida. Dept. Agr. Bien. R. 6: 16-19, 1930.
Wicks, Ida. Dept. Agr. Bien. R. 7: 17, 1932.

Quarantine—International

Clements, Cal. Dept. Agr. Sp. Pub. 119: 42-44, 1933.

Quarantine—Iowa

Drake, Iowa Dept. Agr. YB 30: 163-165, 1930.

Quarantine—Legislation

Headlee, J. Ec. Ent. 24: 538-544, 1931.
McLaine, Que. Soc. Prot. Pl. R. 25/26: 67-69, 1934.
Millar, Plant Laws Explained, 1932, 26p.
Mohler, Kans. Ent. Comm. C. 4 rev. 1931. 15p.
Sullivan, J. Ec. Ent. 25: 427-432, 1932.

Quarantine—Mississippi

Harned, Internat. Cong. Ent. 4, Trans. 2: 1036-1037, 1929.
Miss. St. Pl. Bd. Quar. B. 10(2): 14, '30.

Quarantine—Missouri

Jones & Boillot, J. Ec. Ent. 23: 553-555, 1930.

Quarantine—Montana

Knight, Cal. Agr. Mo. B. 23: 291-292, 1934.
Stafford & Sippel, Cal. Dept. Agr. Sp. Pub. 119: 52-54, 1933.

Quarantine—Nebraska

J. Ec. Ent. 27: 553, 1934.

Quarantine—New Jersey

iBack, N.J. Dept. Agr. Bur. Stat. & Insp. C. 182, 1930. 47p.

Quarantine—Nursery stock

Armstrong, Cal. Assoc. Nurserym. Trans. & P. 20: 13-14, 1930.
Britton, Conn. C. 79: 55-62, 1931.
Fleury, J. Ec. Ent. 27: 592, 1934.
Houston, Nat. Nurserym. 39(4): 18, 1931.

Strong, USDA PQCA SRA 108: 108-115, 1931.

Strong, USDA PQCA Q37, Q44, July 1932.

Strong, Amer. Assoc. Nurserym. Conv. 58: 101-110, 1934.

Van Buren & Eastman, N.Y. Dept. Agr. C. 432, 1931, 43P.; C. 454, 1932, 44p.; C. 471, 1933, 51p.; C. 487, 1934. 52p.

iWorthley, USDA YB f. 1934: 199-203. N.Y. Dept. Agr. B. 251: 114-117, 1931; B. 260: 117-120, 1932; B. 274: 123-126, 1933; B. 286: 126-129, 1934.
USDA Off. Rec. 11: 165, 1932.

Quarantine—Nursery stock—Arkansas

J. Ec. Ent. 27: 1109, 1934.

Quarantine—Nursery stock—Canada

McLaine, Pac. Sci. Cong. 5, P. 5: 3567-3571, 1934.

Quarantine—Nursery stock—Connecticut

Britton, Conn. C. 72: 55-61, 1930.

Quarantine—Nursery stock—Indiana

Wallace, Ind. YB f. 1930: 477-478.

Wallace, Ind. YB f. 1931: 814-819.

Quarantine—Nursery stock—Minnesota

Ruggles, Minn. Hort. 62: 93, 1934.

iWinter, Minn. Hort. 58: 43-45, 1930.

Quarantine—Nursery stock—State regulations

Ruggles, J. Ec. Ent. 27: 581-584, 1934.

Quarantine—Oregon

Sammis, Oreg. St. Hort. Soc. R. 22: 63-66, 1930.

Quarantine—Packing materials

USDA BPQ Q 69, July 1, 1933. 3p.

Quarantine—Plant

Barnhart, Flor. Exch. 79(14): 6, 1932.

iBeattie, USDA YB f. 1934: 189.

Britton, Conn. B. 315: 604-605, 1930.

Catoni, Rev. Agr. P.R. 26: 106, 1931.

Cory, J. Ec. Ent. 24: 497-499, 1931.

Dean et al, J. Ec. Ent. 23: 575, 1930.

iDel Curto, Tex. Cit. 6(12): 20, 54, 56, 1930.

Eisenhower & Chew, USDA Misc. Pub. 88: 121-124, 1930.

Essig, Cal. Agr. Mo. B. 19: 477-481, 1930.

Essig, Ga. St. Hort. Soc. P. 54: 31-37, 1930.

Ferris, Science n.s. 71: 68-69, 606-607, 1930.

Fleury, Cal. Dept. Agr. Sp. Pub. 114: 13-42, 1932.

Hamner, Fla. St. Hort. Soc. P. 46: 76-79, 1933.

Harned, USDA YB f. 1933: 130.

Hawkins, USDA YB f. 1934: 288.

Headlee, J. Ec. Ent. 26: 606-609, 1933.

Hecke, Cal. Dept. Agr. Sp. Pub. 92, 1929. 26p.

Hoch & Peck, Kans. Agr. Student 10: 59-60, 1930.

Hyde, USDA PQCA Q 37: 1-8, 1930.

Hyde, USDA YB f. 1931: 54-55.

Leiby, J. Ec. Ent. 25: 486-488, 1932.

McCubbin, Phytopath. 22: 921-922, 1932.

Mahoney, Cal. Dept. Agr. Sp. Pub. 119: 56-57, 1933.

iMartin, Hawaiian Pl. Rec. 35: 3-12, 1931.

iMessenger, Cal. Avocado Assoc. YB f. 1934: 129-132.

Millar, Ark. St. Pl. Bd. Control. Crop Pests, 1930. 24p.

Monteith & Dahl, U.S. Golf Assoc. Green Sec. B. 12: 101, 1932.

Morley, Cal. Agr. Mo. B. 20: 203-204, 1931.

Newell, Fla. St. Hort. Soc. P. 45: 114-116, 1932.

Newell, Fla. St. Pl. Bd. Bien. R. 10, 1934. 29p.

O'Dell, Ariz. Comm. Agr. & Hort. R. 21-22: 33-34, 1931.

O'Kane, J. Ec. Ent. 25: 488-490, 1932.

O'Kane, Phytopath. 22: 933-934, 1932.

Price, J. Ec. Ent. 26: 595-598, 1933.

Rohwer, J. Wash. Acad. Sci. 21: 172-173, 1931.

Ryan, Los Angeles Co. Comm. Agr. R. f. 1931: 2-3, 7-13, 15; R. f. 1932: 3-8, 27-38, 47.

Slate, Conn. B. 327: 566, 1931.

Smith, Cal. Agr. Mo. B. 19: 203-207, 1930.

Strong, Cal. Agr. Mo. B. 20: 128-136, 1931.

Strong, J. Ec. Ent. 24: 499-505, 1931.

Strong, USDA BPQ R. f. 1933: 35-65.

Wallace, Ind. St. Dept. Conserv. Div. Ent. R. f. 1931: 18-20, 1932.

Webb, Wash. St. Hort. Soc. P. 28: 251-257, 1932.

Whitney, Hawaiian For. & Agr. 28: 114-117, 1931.

USDA PQCA List of Pests intercepted 1929: 249-331.

USDA PQCA SRA 37: 201-368, '32.

USDA YB f. 1932: 71-72.

Quarantine—Plant—Aeroplanes

iJohnston, USDA YB f. 1934: 142-144.

U.S. Pub. Health R. 45: 1457-1459, '30.

Quarantine—Plant—Arizona

Bartlett, Ariz. Comm. Agr. & Hort. R. 19-20: 14-17, 1929.

O'Dell, Ariz. Comm. Agr. & Hort. R. 21-22: 32-33, 1931.

Quarantine—Plant—Arkansas

Millar, Plant Laws Explained, 1932. 26p.

Ark. St. Pl. Bd. C. n.s. 1, 1934. 10p.

iArk. St. Pl. Bd. R. f. 1934. 4p.

Quarantine—Plant—Avocado

iFleury, Cal. Avocado Assoc. YB f. 1932: 57-60.

Strong, USDA PQCA SRA 111: 27-28, 1932.

Quarantine—Plant—Barberry

iMeier, J. Ec. Ent. 26: 655-659, 1933.

Quarantine—Plant—British Columbia

Atkinson, B.C. Dept. Agr. R. 26: 12-14, 1931.

Quarantine—Plant—B. C. Cont'd

Fuller, B.C. Dept. Agr. R. 28: 11-14, 1933.

Lyne, B.C. Dept. Agr. R. 25: 36-43, 1930; R. 27: 23-29, 1932; R. 28: 9-10, 1933.

Lyne, Cal. Dept. Agr. Pub. 115: 150-165, 1932.

Olds, B.C. Ent. Soc. P. 31: 8-9, 1934.

Quarantine—Plant—California

Ferris, Science n.s. 79: 13-14, 1934.

Fleury, Cal. Agr. Mo. B. 19: 811-831, 1930.

Fleury, J. Ec. Ent. 25: 470-476, 1932.

Fleury, Cal. Dept. Agr. Sp. Pub. 122, 1933. 53p.

Jacobsen, Cal. Agr. Mo. B. 19: 797-811, 1930.

Ryan, Cal. Agr. Mo. B. 20: 140-144, 1931.

Cal. Agr. Mo. B. 20: 251-253, 1931; B. 22: 345, 1933.

Quarantine—Plant—Canada

McLaine, Pac. Sci. Cong. 5, P. 5: 3567-3571, 1934.

Weir, Can. Min. Agr. R. f. 1933/1934: 58-60.

Quarantine—Plant—Citrus

Blackwell, Okla. R. f. 1926/1930: 268.

Cal. Cit. 118: 329, 346-348, 1933.

Quarantine—Plant—Connecticut

Britton, Conn. C. 73, 1931. 10p.

Quarantine—Plant—Cuba

Estrada, J. Ec. Ent. 24: 531-535, 1931.

Quarantine—Plant—Enforcement

Strong, Cal. Dept. Agr. Sp. Pub. 119: 58-64, 1933.

Quarantine—Plant—Florida

Fla. St. Pl. Bd. Mo. B. 15-16: 169-205, 1932.

J. Ec. Ent. 26: 1190, 1933.

Quarantine—Plant—Foreign

Ryan, Los Angeles Co. Comm. Agr. R. f. 1932: 39-40.

Strong, USDA PQCA R. f. 1931: 54-67.

Quarantine—Plant—Hawaii

Cartwright, Hawaiian For. & Agr. 29: 97-98, 1932.

iFullaway, Hawaii Bd. Comm. Agr. & For. Bien. R. f. 1930: 74-76, 1931.

Pemberton, Hawaiian Sugar Pl. Assoc. P. 52: 132-134, 1933.

Whitney, Hawaiian For. & Agr. 27: 21-26, 86-90, 216-219, 1930; 28: 9-12, 76-79, 1931; 29: 125-130, 1932; 30: 59-69, 1933.

Quarantine—Plant—History

Howard, Fighting the insects: 169-173, 1933.

bWeber, Inst. Govt. Res. Serv. Monog. U.S. Govt. 59, 1930. 198p.

Quarantine—Plant—International

Schwartz, Internat. Corn Borer Invest. Sci. R. 3: 169-172, 1930.

Quarantine—Plant—Mexico

Strong, USDA PQCA SRA 108: 129-132, 1931.

Quarantine—Plant—Missouri

Breshears, Mayes & Dawson, Missouri St. Dept. Agr. B. 32(8), 1934. 19p.

Sullivan, Missouri St. Bd. Agr. B. 28(2), 1930. 32p.

Quarantine—Plant—Narcissus

Cole, Oreg. Dept. Agr. B. 8: 10, 1932.

Del Curto, Tex. Dept. Agr. B. 106: 29, 1931.

G.H.M., Flor. Rev. 70(1801): 25-26, 1932.

[Hyde], Amer. Nurserym. 55: 239, '32.

Hyde, Flor. Exch. 79(23): 9, 26, 1932.

Hyde, Fla. Grow. 40(6): 22, 1932.

Strong, USDA PQCA SRA 108: 105-

108, 1931.

Quarantine—Plant—New Jersey

iBack, N.J. Dept. Agr. C. 182, 1930. 47p.

Quarantine—Plant—Orchids

Linz, Seed World 33(4): 32, 1933.

Quarantine—Plant—Oregon

Sammis, Oreg. Hort. Soc. R. 22: 63-66, 1930.

Quarantine—Plant—Origin

Whitney, Hawaiian Ent. Soc. P. 7: 505-508, 1931.

Quarantine—Plant—Postal service

Wentzel, Cal. Agr. Mo. B. 23: 320-324, 1934.

Wood, Cal. Dept. Agr. Sp. Pub. 115: 64-68, 122-124, 1932; 119: 64-69, 1933.

Wood, Cal. Agr. Mo. B. 23: 263-264, 1934.

Quarantine—Plant—Puerto Rico

Catoni, P.R. Com. Agr. y Trabajo Inf. Ann. f. 1929/1930: 131-145.

- Catoni, Rev. Agr. P.R. 24: 38, 79, 118, 174-217; 25: 20, 45, 90, 143, 216, 1930; 26: 28, 126, 1931.
- Catoni, P.R. Dept. Agr. & Comm. Inf. Ann. Span. ed. f. 1933/1934: 87-101.
- Colón, P.R. Dept. Agr. & Comm. Inf. Ann. Span. ed. f. 1931/1932: 35-48.
- Dominguez, P.R. Dept. Agr. & Comm. Inf. Ann. Span. ed. f. 1932/1933: 190-201.
- Faxon & Trotter, J. Ec. Ent. 25: 435-447, 1932.
- Leonard, J. Ec. Ent. 25: 930-931, 1932.
- Ramos, P.R. Dept. Agr. & Comm. Inf. Ann. Span. ed. f. 1933/1934: 214-221.
- Quarantine—Plant—Ships**
USDA Off. Rec. 11: 100, 1932.
- Quarantine—Plant—South Carolina**
Berly, S.C. C. 43, 1930. 32p.
- Quarantine—Plant—Sugarcane**
Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 428-429, 1931.
- Quarantine—Plant—Tennessee**
iBentley, Tenn. Dept. Agr. Bien. R. f. 1931/1932: 135-147.
- Quarantine—Plant—Transportation**
Fracker & Sheals, J. Ec. Ent. 23: 536-544, 1930.
- Quarantine—Plant—U.S.**
Fracker, Sheals & Thomson, USDA Misc. Pub. 189, 1934. 135p.
Hoyt, USDA BPQ. R. f. 1934. 68p.
iJohnston, USDA YB f. 1934: 142-144.
Strong, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 223-229, 1930.
Strong, USDA PQCA R. f. 1930. 86p.; R. f. 1931. 99p.; R. f. 1932. 63p.; R. f. 1933. 66p.
J. Ec. Ent. 26: 522, 1933; 27: 589-590, 1934.
- Quarantine—Plant—U.S.—Directory**
USDA Misc. Pub. 155, 1933. 48p.
- Quarantine—Plant—U.S.—Economic aspect**
Herrick, P. Amer. Assoc. Nurserym. 55: 80-90, 1930.
- Quarantine—Plant—U.S.—Legislation**
Fracker, J. Ec. Ent. 27: 574-580, 1934.
- Quarantine—Plant—Utah**
Stephens, Utah St. Bd. Agr. Bien. R. 6: 18-19, 1932.
- Quarantine—Plant—West Virginia**
McLaughlin, W.Va. St. Dept. Agr. Bien. R. 11: 36-40, 1934.
- Quarantine—Plant—Western**
Fleury, J. Ec. Ent. 26: 610-612, 1933.
Jacobsen, J. Ec. Ent. 25: 491-493, 1932.
- Quarantine—Plant—Willow withes**
J. Ec. Ent. 27: 1109, 1934.
- Quarantine—Plant—Wisconsin**
Chambers, Wis. Dept. Agr. B. 109: 8-13, 1930.
- Quarantine—Principles**
Cal. Agr. Mo. B. 20: 109-111, 1931.
- Quarantine—Public interest**
Moulton, Cal. Dept. Agr. Sp. Pub. 119: 55-56, 1933.
- Quarantine—Summarized data**
Fleury, J. Ec. Ent. 27: 591-592, 1934.
- Quarantine—U.S.**
Meehan, Nat. Nurserym. 40(19): 4, 1932.
Strong, USDA PQCA R. f. 1930: 63-66.
- Quarantine—Washington**
J. Ec. Ent. 26: 1008, 1933.
- Quasimus haddeni**
nFleutiaux, Hawaiian Ent. Soc. P. 8: 483, 1934.
- Quaylea whittieri**
iEssig, Hist. of Ent.: 360-361, 1931.
- Question mark, see Polygonia interrogationis**
- Quill mite, see Syringophilus bi-pectinatus**
- *Quince curculio, see Conotrachelus crataegi**
- Quince insects**
biMcConnell, Md. B. 364: 411-456, 1934.
Quaintance & Siegler, USDA FB 1666: 76, 1931.
- Quippelachnus, see Oestlandiella**
- Rabbit—Pests**
Vorhies & Taylor, Ariz. TB 49: 549-551, 1933.
- *Rabbit louse, see Haemodipsus ventricosus Denny**
- *Rabbit tick, see Haemophysalis leporis-palustris Pack.**

- Rachela bruceata** (Hulst) (Bruce's spanworm)*
 Bailey, Vt. Comm. Agr. Bien. R. 17: 67-68, 1934.
 Maltais, Que. Pom. & Fr. Grow. Soc. R. 40: 98-99, 1933.
 Twinn, Ent. Soc. Ont. R. 65: 119, 1934.
- Rachicerus niger**
 bnLeonard, Amer. Ent. Soc. Mem. 7: 13, 1930.
- Racodineura antiqua**
 iGreene, P. Ent. Soc. Wash. 36: 31, '34.
- Radio and insects**
 Davis, Lit. Dig. 115(23): 18, 1933.
 iDavis, Sci. Amer. 148: 272-273, 1933.
 iFleur, Pop. Sci. Month. 117(5): 67, '30.
 bHadjinicolaou, J. N.Y. Ent. Soc. 39: 145-150, 1931.
 Headlee, N.J. R. 51: 137-142, 1930; R. 53/54: 38, 1933.
 bHeadlee, J. Ec. Ent. 24: 427-437, 1931; 25: 276-288, 1932; 26: 313-319, '33.
 bHeadlee, N.J. B. 568, 1934, 16p.
 Headlee & Burdette, J. N.Y. Ent. Soc. 37: 59-64, 1929.
 Mourontseff, Elect. World 102: 667, 1933.
 bPyenson, J. N.Y. Ent. Soc. 41: 241-252, 1933.
- Radish insects**
 Ruggles, J. Ec. Ent. 27: 743, 1934.
- Ragweed borer**, *see* **Epiblema strenuana**
- Railroad worm**, *see* **Rhagoletis pomonella**
- Rainieria nebulosa**, *pleuralis*
 nCresson, Trans. Amer. Ent. Soc. 56: 318-319, 321, 1930.
- Rainieria postica**
 nCurran, Amer. Mus. Nov. 559: 2, 1932.
- Rainieria uda**
 nCresson, Trans. Amer. Ent. Soc. 56: 320, 1930.
- ***Raisin moth**, *see* **Ephestia figulilella**
- Ranatra fusca**—*Spermatogenesis*
 iChickering, Field & Howes, Mich. Acad. Sci. Pap. 13: 253-255, 1931.
- Ranatra texana**
 nHungerford, Can. Ent. 62: 217, 1930.
- ***Range caterpillar**, *see* **Hemileuca oliviae**
- ***Range crane fly**, *see* **Tipula simplex**
- Range insects**
 Burgess, Ariz. R. 45: 51-52, 1934.
- Cartwright et al, Cal. Agr. Mo. B. 22: 157, 1933.
- Range insects and lizards**
 bKnowlton, J. Ec. Ent. 27: 998-1004, 1934.
- Raparna melanospila**
 Benjamin, Pan-Pac. Ent. 9: 6, 1933.
- Raphium lugubre**
 iVan Duzee, Amer. Mus. Nov. 569: 16, 1932.
- ***Rapid plant bug**, *see* **Adelphocorus rapidus** (Say)
- Rasahus thoracicus**
 Walker, Flow Grow. 17: 553-554, 1930.
- Raspberry and blackberry insects**
 Dcan, Kans. St. Hort. Soc. Bien. R. 40: 150-153, 1930.
- Raspberry aphid**, *see* **Amphorophora rubi**
- Raspberry bud weevil**, *see* **Geoderces melanothrix**
- ***Raspberry byturus**, *see* **Byturus unicolor**
- ***Raspberry cane borer**, *see* **Oberea bimaculata** (Oliv.)
- Raspberry cane girdler**, *see* **Oberea bimaculata**
- ***Raspberry cane maggot**, *see* **Pegomyia rubivora** (Coq.)
- Raspberry crown borer**, *see* **Penisetia marginata**
- ***Raspberry fruitworm**, *see* **Byturus unicolor** Say
- Raspberry horntail**, *see* **Hartigia cressoni**
- Raspberry insects**
 iBourne, Mass. Ext. Leaf. 48 rev.: 13-14, 1933.
 Colby, Ill. St. Hort. Soc. Trans. 67: 357-368, 1934.
 iHouser, Ohio B. 454: 67-77, 1930.
 Hutson, Mich. Quar. B. 15: 68-70, '32.
 Loree, Mich. C. B. 152: 27-29, 1934.
 McGregor, P. Ent. Soc. Wash. 33: 193-194, 1931.
- biMetcalf & Colby, J. Ec. Ent. 23: 97-109, 1930.
 Mumford, Ill. R. 46: 152-153, 1933.
 iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(4): 3-4, 1930.
 iRiker & Banfield, Wis. B. 420: 23-24, 1931.
 Smith, Cal. B. 505: 3-38, 1931.
- Raspberry mite**, *see* **Paratetranychus illicis**

- *Raspberry root borer, *see* *Bembecia marginata* (Harr.)
- *Raspberry sawfly, *see* *Monophadnoides rubi* (Harr.)
- Rat flea survey—Puerto Rico
biCarrión, U.S. Pub. Health & Trop. Med. 5: 158-166, 1929; 6: 273-282, 1930.
biCarrión, U.S. Pub. Health R. 45: 1515-1520, 1930; R. 47: 193-201, 1932.
- Rat flea survey—Savannah, Ga.
Fox, U.S. Pub. Health R. 46: 574-575, 1931.
- Rat flea survey—Virgin Islands
Carnes, U.S. Pub. Health R. 46: 2558-2562, 1931.
- Rattlebox moth, *see* *Utethesia ornatrix*
- Recurvaria—Key
Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 117-118, 1930.
- Recurvaria apictripunctella
Felt, J. Ec. Ent. 26: 47, 1933.
- Recurvaria consimilis
nBraun, Trans. Amer. Ent. Soc. 56: 5-6, 1930.
- Recurvaria milleri Busck (Lodgepole needle miner)*
Salman, Cal. Agr. Mo. B. 22: 132, 1933.
- Recurvaria nanella (Hbn.) (Lesser bud-moth)*
iGilliat, Sci. Agr. 14: 466-476, 1934.
Pack, J. Ec. Ent. 23: 737, 1930.
Pack, Utah Acad. Sci. P. 7: 59, 1930.
iPack, Utah B. 216: 12-13, 1930.
iQuaintance & Siegler, USDA FB 1270 rev.: 33-35, 1931.
- Recurvaria stanfordia
inKeifer, Cal. Agr. Mo. B. 22: 354-355, 1933.
- Recurvaria thujaella
iPierson, Field Book of Destruct. For. Ins. ed. 2: 19, 1932.
- *Red admiral, *see* *Vanessa atalanta* (L.)
- Red and black cherry aphid, *see* *Aphis feminea*
- Red and black hairy sand ant, *see* *Sphaerophthalma occidentalis*
- Red back spider, *see* *Latrodectus hasseltii*
- *Red-banded leaf roller, *see* *Argyrotaenia velutinana* (Walk.)
- *Red-banded thrips, *see* *Selenothrips rubrocinctus* (Giard)
- Red-barred sulphur butterfly, *see* *Catopsilia philea*
- Red bugs (Florida), *see* *Trombicula* spp.
- Red carpenter ant, *see* *Camponotus herculeanus pennsylvanicus ferrugineus*
- Red clover insects
Hallowell, USDA Leaf. 93: 7, 1932.
- Red cutworm, *see* *Lampra placida*
- *Red date scale, *see* *Phoenicococcus maulatti* Ckll.
- *Red harvester ant, *see* *Pogonomyrmex barbatus* (F. Smith)
- *Red-headed ash borer, *see* *Neoclytus acuminatus* (F.)
- *Red-headed pine sawfly, *see* *Neodiprion lecontei* (Fitch)
- *Red-humped caterpillar, *see* *Schizura concinna* (S. & A.)
- *Red-legged flea beetle, *see* *Derocrepis rufipes* (Melsh.)
- *Red-legged ham beetle, *see* *Necrobia rufipes* (Deg.)
- Red-legged grasshopper, *see* *Melanoplus femur-rubrum*
- *Red milkweed beetle, *see* *Tetraopes tetraphthalmus* (Forst.)
- Red mite, *see* *Dermanyssus gallinae*
- *Red-necked cane borer, *see* *Agrilus ruficollis* (F.)
- Red pepper insects
Learned, Bklyn. Ent. Soc. B. 27: 112 1932.
- Red-shouldered leaf beetle, *see* *Saxinis saucia*
- *Red spider, *see* *Tetranychus telarius*
- Red spotted emperor, *see* *Basilarchia astyanax*
- Red-spotted purple, *see* *Basilarchia astyanax*
- *Red-tailed tachina, *see* *Winthemia quadripustulata* (F.)
- *Red turnip beetle, *see* *Entomoscelis adonidis* (Pallas)
- *Red turpentine beetle, *see* *Dendroctonus valens* Lec.
- *Red-winged pine beetle, *see* *Dendroctonus rufipennis* (Kby.)
- Redberry mite of blackberry, *see* *Eriophyes essigi*
- Reduviidae
iHaviland, Zoologica 7: 129-154, 1931.
biMatheson, Med. Ent. 139-145, 1932.

Reduviidae Cont'd

Metcalf, Ill. St. Acad. Sci. Trans. 23:
265-266, 1931.

Reduviolus capsiformis

Bryan, Hawaiian Ent. Soc. P. 8: 237,
1933.

Reduvius personatus (Masked hunter)*

biRadio, Ann. Ent. Soc. Amer. 24: 19-
39, 1931.

Redwood scale, see Aonidia shastae**Reepenina testacea**

Cockerell, J. N.Y. Ent. Soc. 40: 521,
1932.

Regal fritillary, see Argynnis idalia***Regal moth, see Citheronia regalis (F.)****Regasilus, R. strigaria**

nCurran, Amer. Mus. Nov. 487: 24-25,
1931.

Reichenbachia gentilis, ignobilis

nFletcher, Can. Ent. 64: 32, 33, 1932.

Reichenbachia snowi

nLutz, Can. Ent. 64: 31-32, 1932.

Reindeer insects

Marlatt, USDA Ent. R. f. 1932: 31.

Parks, Alaska Gov. R. f. 1929/1930:
101; R. f. 1930/1931: 121; R. f.
1931/1932: 113.

Relapsing fever tick, see Ornithodoros turicata**Remosa spinolae**

biMetcalf & Bruner, Psyche 37: 404-405,
1930.

Renocera pacifica

nCurran, Amer. Mus. Nov. 682: 9-10,
1933.

Renocis penicillatus

nBruck, Can. Ent. 65: 239-240, 1933.

Repellents for insects

Bishopp, N. J. Mos. Exterm. Assoc. P.
19: 33, 1932.

Burdette, N. J. R. 50: 185-187, 1929.

Davis, Purdue Univ. B. 32(7): 34-36,
1932.

Dean, Kans. St. Hort. Soc. Bien. R.
41: 222, 1932.

Decker, Iowa St. Hort. Soc. Trans. 68:
153-155, 1933.

iGray, Kans. Live Stock San. Comm.

Bien. R. 14: 139-141, 1933.

McDaniel, Mich. Sp. B. 238: 4-5, 1933.

Metcalf & Flint, Fund. of Ins. Life ed.
1: 399-401, 1932.

biMetcalf & Sanderson, N.Y. St. Mus.
Mus. C. 5: 27-29, 1931.

iMetzger, J. Agr. Res. 40: 659-671, '30.
Weir, Can. Min. Agr. R. f. 1931/1932:
186.

Repellents for insects—Bordeaux mixture

Munro & Riddle, N.Dak. C. 42 rev.:
8, 1933.

Sanderson, Ins. Pests Farm ed. 3: 55-
56, 1931.

Repellents for insects—Clothes moths

iBillings, J. Ec. Ent. 27: 401-405, 1934.

iHerrick, J. Ec. Ent. 27: 1095-1099, '34.

Repellents for insects—Colored glass—Flies

F.W.P., Glass Ind. 11: 203-204, 1930.

Repellents for insects—Derris

Osburn, J. Ec. Ent. 27: 293, 1934.

Repellents for insects—Dye

Ritchey, Sci. News Letter 23: 315, '33.

Repellents for insects—Esters

Moore, J. N.Y. Ent. Soc. 42: 185-192,
1934.

Repellents for insects—Extracts—Im-mune plants

iMetzger & Grant, USDA TB 299, 1932.
22p.

Repellents for insects—Legumes

Grabner & Fluke, Hoard's Dairym.
79: 92, 105, 1934.

Repellents for insects—Light

iHeadlee, Canning Age 12: 684, 1931.

Repellents for insects—Naphthalene

bFleming & Baker, USDA TB 427: 20-
24, 1934.

Repellents for insects—Rotenone

Osburn, J. Ec. Ent. 27: 293, 1934.

Repellents for insects—Sodium fluoride

Ehrhorn, Hawaiian Ent. Soc. P. 7:
393-394, 1931.

Reipta affinis

inHaviland-Brindley, Zoologica 7: 149-
150, 1931.

Reppert weevil machine, see Insect control—Mechanical devices**Residue removal, see Spray residue removal****Resistance of plants, see Insects—Resistant plants****Resistant red scale of California, see Chrysomphalus aurantii**

*Resplendent shield bearer, *see* *Coptodisca splendoriferella* (Clem.)

Reticulitermes

biBentley & Rogers, Tenn. Pl. Dis. Control. B. 49, 1931. 22p.

biHare, J. Morph. 56: 267-293, 1934.

Pickens, Pan-Pac. Ent. 8: 178-180, '32.

Reticulitermes arenicola

bEmerson, Psyche 40: 125-129, 1933.

bGoellner, P. Ent. Soc. Wash. 33: 227-234, 1931.

biHare, J. Morph. 56: 267-293, 1934.

biMcDaniel, Mich. C. B. 150, 1934. 14p.

Reticulitermes flavipes

Benkert, Penn. Acad. Sci. P. 4: 97-99, 1930; P. 7: 121-122, 1933.

iBritton, Conn. B. 349: 451-452, 1933.

Davis, Ind. Acad. Sci. P. 39: 302, 1930.

Haseman & Jones, Mo. B. 342: 27-28, 1934.

Houser, Ohio B. 478: 44-45, 1931.

Jacot, Conn. B. 349: 445, 1933.

biMcDaniel, Mich. C. B. 150, 1934. 14p.

iMoznette et al, USDA FB 1654: 54-56, 1931.

iParks & Jones, Ohio Ext. B. 97 rev.: 19-20, 1933.

Smith, J. Kans. Ent. Soc. 5: 87-88, '32.

iSnodgrass, Smithsonian. Sci. Ser. 5: 130, 1930.

iSnyder & Popenoe, P. Biol. Soc. Wash. 39: 153-157, 1932.

iSnyder, USDA FB 1472 rev., 1934. 21p

Snyder & Popenoe, Extermin. Log. 1(7): 7, 15-16, 1933.

Wallace et al, Ind. Dept. Conserv. R. 14: 58, 1932.

Reticulitermes hesperus

Essig, Hist. of Ent. 96: 1931.

biHendee, Cal. Univ. Pub. Zool. 39: 111-133, 1933.

iLight et al, Cal. C. 318: 26, 1930.

iLockwood, Cal. Agr. Mo. B. 18: 764-765, 1929.

Pickens, Pan-Pac. Ent. 8: 178-180, '32.

iPickens, Kofoid, Termites and Termite Control: 148-174, 1934.

iSmith, Cal. Agr. Mo. B. 19: 557-560, 1930.

Whitney, Hawaiian Ent. Soc. P. 7: 391, 1931.

Reticulitermes humilis

Davis et al, USDA TB 388: 48, 1933.

bLight, Cal. Univ. Pub. Ent. 6(5): 104-105, 1933.

Reticulitermes lucifugus

iBrown, Engin. News-Rec. 111: 221-224, 1933.

Reticulitermes spp.

biBentley & Rogers, Tenn. Pl. Dis. Control B. 49, 1931. 22p.

Goellner, P. Ent. Soc. Wash. 33: 233-234, 1931.

Reticulitermes tibialis

Light, Pan-Pac. Ent. 8: 7, 1931.

iPickens, Kofoid, Termites and Termite Control: 175-177, 1934.

Reticulitermes virginicus

iSnyder, USDA FB 1472 rev., 1934. 21p.

Reuteroscopus ornatus

bMcGarr, J. Ec. Ent. 26: 953-956, 1933.

Reynoldsiella, R. parallela

inRay, Coleop. Contrib. 1: 164-165, '30.

Rhabdepyris zeae

Gahan, J. Wash. Acad. Sci. 21: 221, 1931.

Gahan, PUSNM 77(8): 12, 1931.

Rhabditis lambdiensis (Elworm)

bHaseman & Ezell, J. Ec. Ent. 27: 1189-1191, 1934.

biSteiner, J. Agr. Res. 46: 427-435, 1933.
Strong, USDA SRA PQ 112: 75, 77-79, 1932.

Rhabdocnemis obscura (Bdv.) (New Guinean sugar cane weevil)*

iCrawford, Nature Mag. 23: 18-20, '34.

Holloway, Facts about Sugar 26: 209-211, 1931.

iHoward, Insect Menace: 257-262, '31.

bLeonard, Rev. Agr. P.R. 25: 63, 1930.

Pemberton, Facts about Sugar 27: 484, 1932.

Pemberton, Hawaiian Sugar Pl. Assoc.

P. 52: 19, 1933; P. 53: 15, 1934.

Swezey, Hawaiian Ent. Soc. P. 7: 391, 1931.

Swezey, et al, Hawaiian Sugar Pl. Assoc. P. 50: 425, 1931; P. 51: 580, 1932.

Swezey, Mid-Pac. Mag. 42: 325, 1931.

Swezey & Williams, Pan-Pac. Res. Inst. J. 6(3): 3, 1931.

- Rhabdocnemis obscura (Bdv.) Cont'd**
 Vandenbergh, Guam R. f. 1928: 23-24, 1930.
 biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 209-218, 1931.
- Rhabdocnemis obscura—Parasites**
 Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 48, 1932.
 Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 425-426, 1931.
- Rhabdoides cellus**
 Clark, Science n.s. 80: 163-164, 1934.
- Rhabdomastix spp.**
 nAlexander, Bklyn. Ent. Soc. B. 25: 75-76, 1930.
 nAlexander, J. N.Y. Ent. Soc. 41: 91-95, 1933.
- Rhabdophaga strobiloides**
 McDaniel, Mich. Sp. B. 243: 64-65, 1933.
- Rhabdopterus picipes (Oliv.) (Cranberry root worm)***
 iHarman, J. Ec. Ent. 24: 180, 1931.
 Hedrick, N.Y. (Gen.) R. 50: 52, 1931; R. 51: 55, 1932.
- Rhabdorthrips, R. albus**
 inHood, P. Ent. Soc. Wash. 35: 45-48, 1933.
- Rhachicreagra mexicana**
 inHebard, Trans. Amer. Ent. Soc. 58: 296-298, 1932.
- Rhacodineura antiqua**
 Mote J. Ec. Ent. 24: 948-956, 1931.
- Rhaebus**
 Bridwell, P. Ent. Soc. Wash. 34: 102, 1932.
- Rhagio spp.**
 bnLeonard, Amer. Ent. Soc. Mem. 7: 92-97, 116-117, 1930.
- Rhagionidae**
 Curran, BAMNH 58: 172-174, 1929.
 biLeonard, Amer. Ent. Soc. Mem. 7, 1930. 181p.
 Leonard, Trans. Amer. Ent. Soc. 57: 321-323, 1931.
 bMalloch, P. Ent. Soc. Wash. 33: 213-220, 1931.
 Riley, & Johannsen, Med. Ent.: 308, 1932.
- Rhagoletis**
 biBenjamin, USDA TB 401: 12-17, 1934.
- Curran, Amer. Mus. Nov. 526: 3-10, 1932.
- Rhagoletis berberis**
 inCurran, Amer. Mus. Nov. 526: 8-9, 1932.
- Rhagoletis cingulata (Loew) (Cherry fruit fly)* (Cherry maggot)***
 Baker, Wash. St. Hort. Soc. P. 26: 207, 1930.
 Barss & Mote, Oreg. Ext. B. 431: 11-12, 1931.
 iCaesar, Ont. B. 356: 57-59, 1930.
 Cole, Cal. Agr. Mo. B. 23: 241, 1934.
 iCurran, Amer. Mus. Nov. 526: 7-8, 1932.
 Dutton, Mich. St. Hort. Soc. R. 60: 33, 1931.
 Farleman, J. Ec. Ent. 26: 825-828, '33.
 Fleury, Cal. Agr. Mo. B. 19: 827, 1930.
 Hanson, W. Wash. Hort. Assoc. P. 25: 46-47, 1934.
 Hedrick, N.Y. (Gen.) R. 51: 64-65, 1932; R. 53: 44, 1934.
 iHutson, Mich. Sp. B. 244: 23-25, 1933.
 Ladd, N.Y. (Gen.) R. 52: 60-61, 1933.
 McWhorter et al, Oreg. Ext. B. 470: 4-5, 1934.
 iMetzger, Mich. Dept. Agr. Bien. R. 6: 42-45, 120, 1934.
 iMote, Cal. Agr. Mo. B. 19: 256-258, 1930.
 iNewcomer, USDA C. 270: 46-47, 1933.
 Perry, Cal. Agr. Mo. B. 19: 509, 1930.
 Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 3-4.
 iPettit, Mich. Ent. R. f. 1930: 5; R. f. 1931: 4-6.
 iPettit, Mich. St. Bd. Agr. R. 44: 255-256, 1931.
 iPettit & Tolles, Mich. C. B. 131: 1930. 11p.
 Powell, Mich. R. f. 1929/1930: 44-46.
 iPowell, Mich. St. Dept. Agr. Bien. R. 4: 44-46, 103-104, 1930; R. 5: 81, 1932.
 Quaintance & Siegler, USDA FB 1666: 82-83, 1931.
 Sanderson, Ins. Pests Farm ed. 3: 406-407, 1931.
 Wakeland, Ida. St. Hort. Assoc. P. 36: 160-161, 1931.

- Williams, Neb. St. Hort. Soc. P. 61:
99-100, 1930.
- Rhagoletis cingulata—Host relations**
Glasgow, J. Ec. Ent. 26: 431-438, 1933.
- Rhagoletis cingulata—Quarantine**
Flcury, Cal. Agr. Mo. B. 22: 527, 1933.
- Rhagoletis completa (Walnut husk fly)***
iBoyce, Cal. Agr. Mo. B. 20: 682-690,
1931.
biBoyce, J. Ec. Ent. 24: 1018-1024, 1931;
25: 1053-1059, 1932; 26: 819-825,
1933.
iBoyce, Diamond Walnut News 16(3):
12-13, 1934.
- biBoyce, Hilgardia 8(11): 363-579, 1934.
- biDeLong, Ohio J. Sci. 34: 190-193, 1934.
- iEssig & Hoskins, Cal. Ext. C. 87: 88,
1934.
Fleury, Cal. Agr. Mo. B. 19: 829, 1930.
Jacobsen, Cal. Agr. Mo. B. 19: 829-
830, 1930.
iMackie & Gammon, Cal. Agr. Mo. B.
20: 384-388, 1931.
Ryan, Los Angeles Co. Comm. Agr. R.
f. 1931: 20-21; R. f. 1932: 7-8.
- Rhagoletis completa—Host resistance**
iBoyce, J. Ec. Ent. 26: 813-819, 1933.
- Rhagoletis completa—Parasites**
Smith, Diamond Walnut News 13(6):
5, 1931.
- Rhagoletis fausta (Black cherry fruit fly)***
Farleman, J. Ec. Ent. 26: 825-828,
1933.
Fleury, Cal. Agr. Mo. B. 19: 827, 1930.
iHutson, Mich. Sp. B. 244: 23-25, 1933.
Ladd, N.Y. (Gen.) R. 52: 60-61, 1933.
iPettit, Mich. St. Bd. Agr. R. 44: 255-
256, 1931.
Quaintance & Seigler, USDA FB 1666:
82-83, 1931.
Strand, Mont. B. 294: 36, 1934.
Twinn, Que. Soc. Prot. Pl. R. 23/24:
157, 1932.
- Rhagoletis fausta—Host relations**
Glasgow, J. Ec. Ent. 26: 431-438, 1933.
- Rhagoletis fausta—Oviposition**
Farleman, J. Ec. Ent. 25: 1048, 1932.
- Rhagoletis indifferens**
inCurran, Amer. Mus. Nov. 526: 8, 1932.
- Rhagoletis juglandis**
Boyce, Cal. Agr. Mo. B. 19: 729-730,
1930.
iBoyce, Diamond Walnut News 12(4):
7, 1930; 13(3): 6-7, 1931; 14(3): 15-
17, 1932.
Hutchison, Cal. R. f. 1930-1931: 39,
1932.
Mackie, Cal. Agr. Mo. B. 19: 838-839,
1930.
Moulton, Cal. Agr. Mo. B. 20: 753, '32.
Ryan, Cal. Agr. Mo. B. 19: 778, 1930.
Ryan, Diamond Walnut News 12(6):
5, 1930.
- Rhagoletis juglandis—Cryolite**
Hutchison, Cal. R. f. 1932/1934: 62-63.
- Rhagoletis juglandis—Irrigation**
iBraucher, Diamond Walnut News
14(4): 11, 1932.
- Rhagoletis juglandis—Quarantine**
Fleury, Cal. Agr. Mo. B. 22: 528-529,
1933.
Ryan, Diamond Walnut News 15(2):
8-9, 1933; 15(4): 8, 1933.
J. Ec. Ent. 25: 1120, 1932.
- Rhagoletis juglandis—Sprays**
iBoyce, Diamond Walnut News 15(3):
8-9, 1933.
- Rhagoletis juglandis—Water courses**
Wolff, Cal. Agr. Mo. B. 20: 230-233,
1931.
- Rhagoletis mendax**
inCurran, Amer. Mus. Nov. 526: 7, 1932.
- †Rhagoletis pomonella (Walsh) (Apple
maggot)* (Blueberry maggot)***
Allen, Wis. Hort. 21: 41, 1930.
bAllen & Riker, Phytopath. 22: 557-571,
1932.
Bourne, Mass. B. 271: 258-260, 1931;
B. 280: 217, 1932; B. 293: 31-32,
1933; B. 305: 33, 1934.
Bourne & Thies, Mass. Fr. Grow.
Assoc. R. 38: 133-137, 1932.
Britton, Conn. B. 344: 72, 1933.
Butcher et al, Iowa St. Hort. Soc.
Trans. 65: 261-262, 1930.
iCaesar, Ont. B. 356: 15-18, 1930.
Caesar, Ont. Fr. Grow. Assoc. R. 62:
53-54, 1931.
Callenbach, Wis. Hort. 23: 32, 1932.
Chapman, J. Ec. Ent. 24: 686-691, '31.
Chapman, N.Y. St. Hort. Soc. P. 76:
201-210, 1931.
Chapman, Mass. Fr. Grow. Assoc. R.
39: 59-66, 1933.

†*Rhagoletis pomonella* Cont'd

- biChapman & Hammer, N.Y. (Gen.) B. 666: 19-21, 1932; B. 644, 1934. 40p.
Christie, Ont. Agr. Coll. R. 59: 103, 1934.
Chute, N.S. Fr. Grow. Assoc. R. 67: 141-157, 1930; R. 68/69: 22-25, '31.
Clark, Wis. B. 425: 88, 1932.
Cummings, Va. Com. Agr. Bien. R. 15: 148-149, 1930.
iCurran, Amer. Mus. Nov. 526: 7, 1932.
Curtiss, Iowa R. f. 1930: 30.
Cutright, Ohio B. 497: 75, 1932.
biDean, Ann. Ent. Soc. Amer. 25: 210-223, 1932.
biDean, N.Y. (Gen.) TB 215, 1933. 17p.
iDirks, Maine B. 377: 376-380, 1934.
Driggers, N.J. C. 325, 1934. [2p.]
iFluke, Wis. Hort. 20: 143, 1930; 23: 136, 261, 1933; 24: 255, 1934.
iFluke & Allen, Wis. B. 420: 16-17, '31.
iGarman, Conn. C. 101: 59-63, 1934.
Garman, Conn. Pom. Soc. P. 44: 86-87, 1934.
iGodbout, Que. Min. de l'Agr. B. 124: 16-17, 1933.
Goldie, Can. Hort. Fr. & Truck ed. 55: 8, 1932.
Gould, Mass. Fr. Grow. Assoc. R. 36: 34-41, 1930.
Hedrick, N. Y. (Gen.) R. 49: 16-17, 1930; R. 50: 66-68, 1931; R. 51: 67-68, 1932.
iHodson, Minn. Hort. 62: 133, 1934.
Hutson, Mich. St. Hort. Soc. R. 63: 90-92, 1934.
Kendall, N.H. B. 270: 12, 1933.
Kendall, N.H. Ext. C. 148: 6, 1933.
biLathrop & Nickels, Ann. Ent. Soc. Amer. 24: 260-281, 1931.
Lavoie, Can. Min. Agr. R. f. 1932: 151-152.
Leonard, N.S. Fr. Grow. Assoc. R. 71: 23-28, 1934.
Lowry, N.H. Hort. Soc. R. 19: 14-17, 1930.
McLaine, Que. Soc. Prot. Pl. R. 25/26: 67-69, 1934.
Marlatt, USDA Ent. R. f. 1930: 19-20; R. f. 1931: 17.
iMougeot, Que. Dept. Agr. R. f. 1932/1933: 114-115.
iMundinger, J. Ec. Ent. 23: 764-769, 1930.
iNichols, Iowa Ext. B. 181: 5-6, 1932.
Parks, Ohio Hort. Soc. P. 63: 113-117, 1930.
Parrott, N.Y. St. Hort. Soc. P. 76: 28-29, 1931.
Patch, Que. Pom. & Fr. Grow. Soc. R. 36: 99, 1929.
Pettit, Mich. Ent. R. f. 1930: 5.
Pettit & Hutson, Mich. C. B. 137: 44-47, 1931.
Phipps, Maine B. 356: 132-136, 1931; B. 360: 190-192, 1931; B. 363: 268-270, 1932.
Phipps, Maine St. Pom. Soc. R. f. 1931: 13-20; R. f. 1932: 15-16.
Phipps, Mass. Fr. Grow. Assoc. R. 39: 48-54, 1933.
iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(10): 2-4, 1930.
Porter, Mass. Fr. Grow. Assoc. R. 36: 47-54, 1930.
Potter et al, N.H. Ext. B. 47: 44, 1934.
iQuaintance & Siegler, USDA FB 1666: 68, 1931; FB 1270 rev.: 15-17, 1931.
Richardson, Iowa Hort. Soc. Trans. 66: 12, 1931.
Rollins, Conn. (Storrs) Ext. B. 163: 7, 1932.
biRose et al, USDA Misc. Pub. 168: 5-7, 1933.
iRoss, Can. Dept. Agr. B. 129: 39-40, 1930.
Ross, Can. Hort. Fr. & Truck ed. 55: 24, 1932.
Sanderson, Ins. Pests Farm ed. 3: 343-346, 1931.
Smith, Cal. Agr. Mo. B. 19: 248, 1930.
Weir, Can. Min. Agr. R. f. 1932: 183-184.
iWinter, Minn. Hort. 59: 44, 1931.
Woodbury, Nat. Cannery Assoc. Bur. Raw Prod. Res. Mem. Com. Sci. Res. Jan. 1933: 110.
N.S. Fr. Grow. Assoc. R. 66: 60-61, 1930; R. 67: 163-167, 1930.
N.S. Dept. Agr. R. f. 1931: 128-129, 131-132, 1932.

- Rhagoletis pomonella—Bionomics and control**
 Richardson, Iowa Agr. Res. R. f. 1931: 60; R. f. 1932: 56.
- Rhagoletis pomonella—Blueberries**
 Johnston, Mich. Sp. B. 252: 41-42, '34.
 McAlister, J. Ec. Ent. 25: 412-413, '32.
- Rhagoletis pomonella—Calcium arsenate**
 Marlatt, USDA Ent. R. f. 1932: 5-6.
- Rhagoletis pomonella—Calcium arsenate and lead arsenate**
 Burrell, N.H. Hort. Soc. R. 23: 33-34, '33.
- Rhagoletis pomonella—Canada**
 Gibson, Can. Hort. Fr. & Truck ed. 53: 50, 1930.
 McLaine, Ent. Soc. Ont. R. 61: 68-69, 1931.
 Twinn, Ent. Soc. Ont. R. 64: 70, 1933; R. 65: 118, 1934.
 Weir, Can. Min. Agr. R. f. 1933/1934: 61.
- Rhagoletis pomonella—Cold storage**
 Chapman, Amer. Hort. 5(1): 10, 1934.
 Can. Hort. Fr. & Truck ed. 56: 155-156, 1933.
- Rhagoletis pomonella—Delaware**
 Stearns, J. Ec. Ent. 27: 683, 1934.
- Rhagoletis pomonella—Dispersal**
 iBourne, Ties & Shaw, J. Ec. Ent. 27: 352-355, 1934.
 biPhipps & Dirks, J. Ec. Ent. 25: 576-582, 1932; 26: 344-358, 1933.
 N.H. Hort. Soc. R. Meet. Manchester, Dec. 8, 1932: 35-37.
- Rhagoletis pomonella—Dusting**
 iLathrop & Nickels, USDA C. 123, 1930, 14p.
 bMcAlister, J. Ec. Ent. 26: 221-227, '33.
- Rhagoletis pomonella—Eggs**
 biChapman, N.Y. (Gen.) TB 206, 1933. 19p.
- Rhagoletis pomonella—Embargo on infested fruit**
 Chandler, Mass. Fr. Grow. Assoc. Inc. R. 37: 16-17, 1931.
- Rhagoletis pomonella—Emergence records**
 Zappe, Conn. B. 327: 519-520, 1931; B. 338: 596-597, 1932.
- Rhagoletis pomonella—Experiments—Iowa**
 Richardson, Iowa R. f. 1934: 94-95.
- Rhagoletis pomonella—Export business**
 Gilbert, J. Ec. Ent. 24: 536-538, 1931.
- Gray, Conn. Pom. Soc. P. 40: 180-182, 1931.
- Rhagoletis pomonella—Habits**
 Farleman, J. Ec. Ent. 26: 825-828, '33.
- Rhagoletis pomonella—Hudson Valley**
 Chapman, Conn. Pom. Soc. P. 41: 42-48, 1932.
 Chapman, N.Y. St. Hort. Soc. P. 79: 202-203, 1934.
 iHedrick, N.Y. (Gen.) R. 50: 68-71, '31.
- Rhagoletis pomonella—Inspection**
 Kennedy, Ont. Agr. Coll. & Exp. Farm R. 56: 117-118, 1930.
 Turney, N.B. Dept. Agr. R. f. 1933: 71-72.
- Rhagoletis pomonella—Iowa**
 Buchanan & Stevenson, Iowa R. f. 1933: 69-70.
- Rhagoletis pomonella—Lead arsenate**
 Fluke, Wis. Hort. 21: 339, 1931.
- Rhagoletis pomonella—Maine**
 biChapman et al., J. Ec. Ent. 27: 423, 1934.
 iWinter, Minn. Hort. 59: 44, 1931.
 Wis. B. 421: 79-80, 1932.
- Rhagoletis pomonella—Massachusetts**
 iLathrop & McAlister, USDA C. 196, 1931. 14p.
 biLathrop & Nickels, USDA TB 275, 1932. 77p.
- Rhagoletis pomonella—New Hampshire**
 Bourne & Thies, Mass. Fr. Grow. Assoc. Inc. R. 37: 49-53, 1931.
 Piper, Mass. Fr. Grow. Assoc. Inc. R. 37: 42-48, 1931.
- Rhagoletis pomonella—Nova Scotia**
 iLathrop & Nickels, USDA C. 123, 1930, 14p.
 biChapman, N.Y. (Gen.) TB 206, 1933. 19p.
- Rhagoletis pomonella—New York**
 Chapman, Mass. Fr. Grow. Assoc. Inc. R. 37: 29-41, 1931.
 Ladd, N.Y. (Gen.) R. 52: 66-69, 1933.
- Rhagoletis pomonella—Nova Scotia**
 Chute, N.S. Fr. Grow. Assoc. R. 67: 141-157, 1930.
 Goucher, N.S. Dept. Agr. R. f. 1931: 128-129, 1932.
 Leonard, N.S. Fr. Grow. Assoc. R. 71: 23-28, 1934.
 McDonald, N.S. Dept. Agr. R. f. 1933: 67-68, 1934.

- Rhagoletis pomonella—Odors—Influence**
Marshall, Ent. Soc. Ont. R. 61: 82-83, 1931.
- Rhagoletis pomonella—Ontario**
iRoss, Can Hort. Fr. & Truck Ed. 53: 33, 1930.
Ross, Can. Hort. Fr. ed. 57: 25-26, '34.
Farmer's Advoc. 68: 103, 1933.
- Rhagoletis pomonella—Parasites**
biLathrop & Newton, J. Agr. Res. 46: 143-160, 1933.
- Rhagoletis pomonella—Pupae—Kerosene emulsions**
Hammer, J. Ec. Ent. 27: 291-292, '34.
- Rhagoletis pomonella—Quarantine—Quebec**
iLavoie, Que. Dept. Agr. R. f. 1933/1934: 104-106.
- Rhagoletis pomonella—Quebec**
Lavoie, Que. Dept. Agr. R. f. 1930/1931: 163-164; R. f. 1931/1932: 151-152.
Maheux, Que. Pom. & Fr. Grow. Soc. R. 40: 89-96, 1933.
- Rhagoletis pomonella—Spraying**
Chapman, N.H. Hort. Soc. R. 19: 27-40, 1930.
Kendall, N.H. B. 280: 17-18, 1934.
Richardson, Iowa R. f. 1932: 56.
- Rhagoletis pomonella—Sprays, Arsenical**
Burrell, P. Amer. Soc. Hort. Sci. 30: 91-92, 1933.
- Rhagoletis pomonella—Survey**
Goucher, N.S. Dept. Agr. R. f. 1932: 144, 1933.
McCue, Del. Ext. B. 20: 39-40, 1934.
Turney, N.B. Dept. Agr. R. f. 1931/1932: 99-100.
- Rhagoletis pomonella—Traps**
Marshall, Ent. Soc. Ont. R. 62: 47-48, 1932.
iMougeot, Que. Dept. Agr. R. f. 1932/1933: 114-115.
- Rhagoletis pomonella—Wisconsin**
biAllen & Fluke, J. Ec. Ent. 26: 1108-1112, 1933.
- Rhagoletis pomonella—Yeast**
Fluke & Allen, J. Ec. Ent. 24: 77-80, 1931.
- Rhagoletis pomonella and Phytomonas melophthora**
binAllen, Pinckard & Riker, Phytopath. 22: 557-571, 1932; 24: 228-238, '34.
- Rhagoletis pomonella—Storage temperature**
Rasmussen, N.H. Hort. Soc. R. 22: 17-19, 1932.
- Rhagoletis suavis**
iBeck, J. N.Y. Ent. Soc. 40: 497-500, 1932.
iBoyce, Cal. Agr. Mo. B. 19: 249-253, 1930.
iEssig, Hist. of Ent.: 221-222, 1931.
Gambrell, Mo. Nut Grow. Assoc. R. 22: 110-115, 1931.
Porter, North. Nut Grow. Assoc. 23: 78-79, 1932.
- Rhagoletis suavis completa**
iBoyce, Diamond, Walnut News 12(3): 14-16, 1930.
Keifer, Cal. Agr. Mo. B. 19: 579, 1930.
Mackie, Cal. Agr. Mo. B. 18: 755-756, 1929.
- Rhagoletis tabellaria**
Glasgow, J. Ec. Ent. 26: 437, 1933.
- Rhagovelia—World distribution**
biGould, Kans. Sci. B. 20: 5-61, 1931.
- Rhagovelia spp.**
nDrake & Harris, Pan-Pac. Ent. 8: 33-35, 1931.
nDrake & Harris, P. Biol. Soc. Wash. 46: 48-52, 1933.
- Rhagoletis tabellaria**
binGould, Kans. Sci. B. 20: 15-48, 1931.
- Rhagoletis tabellaria**
biGould, Ann. Ent. Soc. Amer. 26: 465-471, 1933.
- Rhamphomyia manca**
Wilson, J. N.Y. Ent. Soc. 40: 88, 1932.
- Rhamphomyia spp.**
nCurran, BAMNH 61: 46-48, 1931.
- Rhans unicolor**
Blaisdell, Trans. Amer. Ent. Soc. 56: 377-380, 1930.
- Rhantus hoppingi, zimmermanni**
nWallis, Can. Ent. 65: 272-276, 1933.
- Rhaphidolabis (Rhaphidolabis) vanduzeei**
nAlexander, Bklyn. Ent. Soc. B. 25: 73, 1930.
- Rhaphidophorinae**
Hebard, Minn. TB 85: 46-47, 1932.
- Rhaphium spp.**
inCurran, Amer. Mus. Nov. 492: 2-7, 1931.
- Rhaphium spp.**
nVan Duzee, Ent. News 41: 53-55, 1930

- in Van Duzee, Amer. Mus. Nov. 521: 8-9, 1932; 599: 4-7, 1933.
- Rhegmoclema atrata**
Keifer, Cal. Agr. Mo. B. 19: 574-575, 1930.
- Rheumatobates clanis**
n Drake & Harris, Pan-Pac. Ent. 8: 157-158, 1932.
- Rheumatobates rileyi**
Schroeder, Kans. Sci. B. 20: 63-64, '31.
bi Silvey, Mich. Acad. Sci. Pap. 13: 433-446, 1931.
- Rheumatobates spp.**
n Schroeder, Kans. Sci. B. 20: 63-99, '31.
- Rhexidius perscitus**
n Fletcher, Can. Ent. 64: 29-31, 1932.
- Rhina barbirostris (Bearded weevil)**
Wolcott, Ec. Ent. of West Indies: 370-372, 1933.
- Rhina oblita**
i Bruner, Rev. de Agr. Cuba 15(6): 41-45, 1934.
- Rhingiopsis bequaerti**
n Curran, Amer. Mus. Nov. 526: 1-2, 1932.
- Rhinia, R. atra**
n Curran, Amer. Mus. Nov. 506: 14-15, 1931.
- Rhinoceros beetle, see Strategus quadri-foveatus**
- Rhinoestrus nasalis**
Rawson, Sci. Month. 39: 501, 1934.
- Rhinomyodes, R. emporomyioides**
n Townsend, J. N.Y. Ent. Soc. 40: 474-475, 1932.
- Rhinoplus laevigatus**
Muesebeck, PUSNM 79(16): 11, 1931.
- Rhinopsys**
Bradley, Ent. News, 45: 273-276, 1934.
- Rhinotermitidae**
b Light, Cal. Univ. Pub. Ent. 6(5): 104-114, 1933.
i Snyder, PUSNM 82(16): 4-6, 1933.
- Rhinthon proximus**
in Bell, Amer. Mus. Nov. 745: 6, 1934.
- Rhinotrrips, R. rostratus**
in Faure, Bklyn. Ent. Soc. B. 28: 7-10, '33.
- Rhinotragini**
Fisher, PUSNM 77(19): 1-20, 1930.
- Rhipicephalus appendiculatus**
Cowdry & Ham, Science n.s. 72: 461-462, 1930.
- Rhipicephalus aurantiacus, dux, longus**
Bequaert, Amer. Mus. Nov. 426: 8-9, 1930.
- Rhipicephalus sanguineus Latr. (Brown dog tick)***
Bequaert, Amer. Mus. Nov. 426: 7-8, 1930.
i Bishopp, Smithson. R. f. 1933: 404-405.
b Davis Amer. J. Trop. Med. 13: 547-554, 1933.
Haigler, North Amer. Vet. 13(12): 44, 1932.
i Hall, USDA C. 338 rev.: 11-13, 1934.
i J.V.L., North Amer. Vet. 12(6): 41, '31.
bi McIntosh, North Amer. Vet. 12(6): 37-41, 1931.
i McIntosh, North Amer. Vet. 14(8): 35-36, 1933.
Marney, North Amer. Vet. 13(8): 22-24, 1932.
Philip, U.S. Pub. Health R. 46: 2168-2172, 1931.
Wallace et al, Ind. Dept. Conserv. R. 14: 57-58, 1932.
- Rhipicephalus sanguineus—Parasites**
b Philip, U.S. Pub. Health R. 46: 2168-2172, 1931.
- Rhipicephalus sanguineus and Anaplas-mosis**
b Alcorn, Vet. Med. 28: 234-237, 1933.
Mohler, USDA BAI R. f. 1931: 74-75.
i Rees, North Amer. Vet. 11(9): 17-20, 1930.
Rees, USDA Off. Rec. 9(31): 12, 1930.
Rees, Science n.s. 75: 318-320, 1932.
Stiles, USDA C. 154: 8, 1931.
- Rhipicephalus sanguineus and Bouton-neuse fever**
i Badger, U.S. Pub. Health R. 48: 507-511, 1933.
- Rhipicephalus sanguineus and Rocky Mountain spotted fever**
bi Parker, Philip & Jellison, Amer. J. Trop. Med. 13: 357-364, 1933.
- Rhipicephalus simus**
Bequaert, Amer. Mus. Nov. 426: 8, '30.
- Rhipicephalus spp.**
Stoddard, Bobwhite Quail: 319-320, 1931.

Rhipicephalus spp. Cont'd

Wallace, Ind. Dept. Conserv. R. 13: 55-56, 1931; Ent. R. f. 1931: 29-30, 1932.

Wallace, Ind. YB f. 1931: 825-826.

Rhipicephalus supertritus

Bequaert, Amer. Mus. Nov. 426: 8-9, 1930.

Rhipiphorus columbianus

nBrown, Can. Ent. 62: 89-90, 1930.

Rhithrogena spp.

inMcDunnough, Can. Ent. 65: 280-281, 1933; 66: 185-188, 1934.

nTraver, Elisha Mitchell Sci. Soc. J. 48: 165-172, 1933.

Rhizobiini—Wax secretion

iFlanders, Ann. Ent. Soc. Amer. 23: 808, 1930.

Rhizobius ventralis (Er.) (Black lady-beetle)*

Cole, J. Ec. Ent. 26: 858, 1933.

Essig, Hist. of Ent.: 293-297, 1931.

Rosa, Hawaiian Ent. Soc. P. 8: 226,

Rosa, Hawaiian Ent. Soc. P. 8: 226, '33.

bSmith, Ann. Ent. Soc. Amer. 26: 522, '33.

Rhizococcus terrestris (Newst.) (Ground mealybug)*

iBasinger, Cal. Agr. Mo. B. 20: 191, '31.

Rhizoglyphus echinopus

Gibson, Can. Dept. Agr. B. n.s. rev. 99: 63-64, 1934.

Rhizoglyphus hyacinthi (Bdv.) (Bulb mite)*

Britton, Conn. B. 344: 132, 1933.

Doane, Common Pests; 299, 1931.

Doucette, Oreg. St. Hort. Soc. R. 22: 89, 1930.

Essig & Hoskins, Cal. Ext. C. 87: 29-30, 1934.

biGambrell, J. Ec. Ent. 27: 1159-1166, '34.

bGriffiths, USDA C. 122: 60, 1930.

biGutterman, N.Y. Hort. Soc. YB f. 1930: 85-88.

Haseman & Jones, Mo. B. 342: 28-30, 1934.

Hedrick, N.Y. (Gen.) R. 53: 51, 1934.

biLatta, J. Ec. Ent. 25: 1020-1026, 1932.

iMcDaniel, Mich. Sp. B. 214: 31-34, '31.

McWhorter & Weiss, Oreg. B. 304: 21, 1932.

Rhizoglyphus hyacinthi and dermatitis

Ormsby, Pract. Treat. Dis. Skin. ed. 4: 1057, 1934.

Rhizoglyphus phylloxerae

Thomas, J. Ec. Ent. 27: 207, 1934.

Rhizoglyphus spp.

Dearing & Griffiths, N.C. Agr. B. Jan. 1930: 44.

Rhizopertha dominica (Lesser grain borer)

Back & Cotton, USDA FB 1260 rev.: 7-9, 1930.

Fleury, Cal. Dept. Agr. Sp. Pub. 119: 30, 1933.

Hoffman, J. Ec. Ent. 26: 293-294, '33.

Schwardt, Ark. B. 268: 48, 1931.

bSchwardt, J. Kans. Ent. Soc. 6: 61-66, 1933.

bStracener, J. Ec. Ent. 27: 768-771, '34.

Rhodesiella elegantula

Bryan, Hawaiian Ent. Soc. P. 8: 228, 1933.

Rhodites radicum O. S. (Rose root gall)*

iMcDaniel, Mich. Sp. B. 243: 63, 1933.

Rhodites rosae (L.) (Mossy rose gall)*

McDaniel, Mich. Sp. B. 243: 63-64, 1933.

Rhodites spp. (Rose galls)

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 58, 1934.

Rhodnius pallens

inBarber, J. Wash. Acad. Sci. 22: 514-517, 1932.

Rhodobaeus tredecimpunctatus (Cocklebur billbug)

biMohr, Ill. St. Acad. Sci. Trans. 24: 226-227, 1931.

Rhododendron borer, see Conopia rhododendri.**Rhododendron insects**

iWhite, J. Ec. Ent. 26: 631-635, 1933.

Rhododendron lacebug, see Stephanitis rhododendri Horv.*Rhododendron white fly, see Dialeurodes chittendeni****Rhodoneura terminalis**

bRainwater, J. Ec. Ent. 27: 757-758, 1934.

Rhomalea microptera—Salivary glands

biBeam & King, J. Morph. 53: 223-242, 1932.

Rhopalocera

Calkins, Ent. News. 43: 210-215, 225-229, 257-260, 1932.

Dospass & Gray, Can. Ent. 66: 188-192, 278, 1934.

- nGunder, Can. Ent. 64: 276-284, 1932;
66: 125-131, 1934.
- Huntington, BAMNH 63: 191-230,
1932.
- Hutchins, Can. Ent. 65: 210-213, 1933.
- Llewellyn-Jones, B.C. Ent. Soc. P. 31:
29, 1934.
- Palmer, Ent. News 42: 157, 1931.
- Richards, Bklyn. Ent. Soc. B. 26: 234-
235, 1931.
- Rhopalophora bicolorella**
nKnull, Ohio J. Sci. 34: 336, 1934.
- Rhopalopsyllus cavicola**
iEskey, U.S. Pub. Health R. 45: 2093-
2094, 1930; R. 47: 2197-2200, 1932.
- Rhopalopsyllus litargus**
iEskey, U.S. Pub. Health R. 47: 2197-
2200, 1932.
- Rhopalopsyllus sigmodoni**
inStewart, Can. Ent. 62: 175-178, 1930.
- Rhopalosiphoninus tulipaella**
McDaniel, Mich. Sp. B. 214: 56, 1931.
- Rhopalosiphum—Key**
Gillette & Palmer, Ann. Ent. Soc.
Amer. 25: 478-479, 1932.
- Rhopalosiphum enigmae**
inHottes & Frison, Ill. Nat. Hist. Surv.
B. 19(3): 235-238, 1931.
- Rhopalosiphum gnaphalii**
inTissot, Fla. Ent. 17: 41-42, 1933.
- Rhopalosiphum persicae**, *see* **Myzus per-**
sicae
- Rhopalosiphum prunifoliae** (Fitch) (Apple
grain aphid)*
biCutright, Ohio B. 464: 5-8, 1930.
Cutright, J. Ec. Ent. 25: 134, 1932.
Knowlton & Sorenson, Utah Leaf.
44(3); 1934.
Pettit & Hutson, Mich. C. B. 137: 31-
32, 1931.
- iQuaintance & Siegler, USDA FB 1270
rev.: 27-29, 1931.
- iSnodgrass, Smithson. Sci. Ser. 5: 170,
1930.
- Wadley, Ann. Ent. Soc. Amer. 24: 334,
1931.
- Rhopalosiphum pseudobrassicae** (Davis)
(Turnip aphid)*
iBurdette & Headlee, N.J. C. 311: 8-9,
1934.
Caesar, Ont. Dept. Agr. B. 359: 36, '31.
- Caesar, Ont. Agr. & Expt. Union R. 55:
36, 1934.
- Caesar, Ent. Soc. Ont. R. 65: 84-85, '34.
- Compton, Ill. C. 391: 8-9, 1932.
- Dustan, Can. Dept. Agr. Ent. B. 32:
45-46, 1932.
- Gould, Va. Truck B. 71: 822-825, 1930.
- Hutson, Mich. R. 47: 217-218, 1934.
- Roney, Tex. R. 43: 40-41, 1930.
- iRoney, J. Ec. Ent. 25: 776-780, 1932.
- Roney, Tex. R. 44: 39, 1932; R. 47: 51,
1934.
- Tissot, Fla. R. f. 1934: 56.
- Twinn, Que. Soc. Prot. Pl. R. 23-24:
154, 1932.
- Twinn, Ent. Soc. Ont. R. 64: 68, 1933;
R. 65: 116, 1934.
- Watson, Fla. B. 232: 41-44, 105-106,
1931.
- Rhopalosiphum rubiphila** (Pale green
raspberry aphid)
bBennett, Mich. TB 125: 22-31, 1932.
- Houser, Ohio B. 454: 71, 1930.
- Knowlton & Orton, W.Va. C. 62: 18-
19, 1933.
- Rhopalosiphum sanguinarium**
inBaker, Mex. Univ. Nac. Int. Biol. Anal.
5: 214-216, 1934.
- Rhopalosiphum scirpifolii**
inGillette & Palmer, Ann. Ent. Soc.
Amer. 25: 138-139, 1932.
- Rhopalosiphum viridicaudus**
inMiller, Can. Ent. 65: 252-253, 1933.
- Rhopobota naevana** (Hbn.) (Black-headed
fireworm)*
Baker, Wash. St. Hort. Soc. P. 26: 183,
1930.
- Beckwith, Amer. Cranb. Grow. Assoc.
P. 64: 11-12, 1934.
- Beckwith, N.J. C. 321, 1934. (4p.)
- Britton, Conn. B. 344: 100, 1933.
- Franklin, Mass. B. 271: 249, 1931.
- Goldsworthy, Wis. Cranb. Grow. Assoc.
R. 48: 26-27, 1934.
- Rhopobota naevana ilicifoliana**
Downes, B.C. Ent. Soc. P. 28: 27-28,
1931.
- iGibson, Can. Dept. Agr. B. n.s. 99,
rev.: 23, 1934.
- Rhopobota sp. and Entomophthora sphae-**
rosperma
biSawyer, Mycologia 23: 421-429, 1931.

- Rhopobota vacciniana*, see *Rhopobota naevana*
- **Rhubarb curculio*, see *Lixus concavus* Say
- Rhubarb insects**
- iCaesar, Ont. Dept. Agr. B. 359: 66-67, 1931.
- Rhyacionia buoliana (Schiff.) (European pine shoot moth)***
- Bailey, Vt. Com. Agr. Bien. R. 15: 33, 1930.
- Bailey, Cult. Conifers North Amer. 344-345, 1933.
- iBaldwin, N.Y. St. Dept. Agr. R. f. 1933: 96, 1934.
- iBritton, Conn. B. 315: 614, 1930; B. 344: 145, 1933; B. 360, 476, 1934.
- bBritton, J. Ec. Ent. 27: 572-574, 1934.
- iBritton & Zappe, Conn. B. 360: 409-410, 1934.
- iDeGryse, Can. Ent. 64: 169-173, 1932.
- DeGryse, Sci. Agr. 16: 407, 1933.
- iDeGryse, Can. Dept. Agr. Div. For. Ins. Sp. C. Mar. 1934, 4p.
- Felt, Nat. Shade Tree Conf. P. 8: 78, 1932.
- Felt, J. Ec. Ent. 26: 49-50, 1933.
- Felt & Bromley, Nat. Shade Tree Conf. P. 6: 18, 1930.
- bFriend, Conn. B. 327: 544-546, 1931; B. 338: 599-600, 1932; B. 349: 454-455, 1933.
- Friend, Conn. C. 80: 63-68, 1931.
- Friend, J. For. 29: 551-556, 1931.
- Friend, Nat. Shade Tree Conf. P. 7: 56-59, 1931.
- bFriend, Ent. Soc. Ont. R. 65: 50-54, 1934.
- Friend & Hicock, Conn. C. 90: 29-31, 1933.
- Friend & Hicock, J. Ec. Ent. 26: 57-62, 1933.
- biFriend & West, Yale Univ. School For. B. 37, 1933, 65p.
- bFriend & West, J. Ec. Ent. 27: 334-336, 1934.
- Hamilton, N.J. R. 51: 183-185, 1930; R. 52: 247-251, 1931.
- Hamilton, N.J. Dept. Ent. R. f. 1930: 183-185, 1931.
- Hamilton, Nat. Shade Tree Conf. P. 9: 63-64, 1933.
- iHamilton, N.J. C. 324: 1934, 4p.
- Lyne, Cal. Dept. Agr. Sp. Pub. 115: 55, 1932.
- iMcDaniel, Mich. Quar. B. 13: 69-71, 1930.
- MacDonald, N.Y. Conserv. Dept. R. 20: 187-188, 1930.
- McIntyre et al, J. Ec. Ent. 27: 208-209, 1934.
- McLaine, J. Ec. Ent. 25: 1119, 1932.
- Morgenthau, N.Y. St. Conserv. Dept. R. 21: 142-144, 1932; R. 22: 123-124, 1933.
- O'Kane, N.H. Agr. R. f. 1931/1932: 118.
- Osbourne, N.Y. Conserv. Dept. R. 23: 101-103, 1934.
- iPettit, Mich. Ent. R. f. 1930: 12-13.
- iPettit, Mich. St. Bd. Agr. R. 69: 214-215, 1930.
- Sheppard, Ent. Soc. Ont. R. 60: 73-76, 1930; R. 63: 58-61, 1932.
- iSlate, Conn. B. 337: 468-469, 1932; B. 347: 275-276, 1933; B. 257: 124, '34.
- biSoraci, N.H. Dept. Agr. C. 243: 56-58, 1934.
- Twinn, Ent. Soc. Ont. R. 64: 74, 1933; R. 65: 123, 1934.
- Weir, Can. Min. Agr. R. f. 1932: 173. J. Ec. Ent. 26: 927, 1933.
- Rhyacionia buoliana—CCC, Conn.**
- Parr, Nat. Shade Tree Conf. P. 9: 92-94, 1933.
- Plumb & Hicock, J. Ec. Ent. 27: 344-345, 1934.
- Rhyacionia buoliana—Parasites**
- bDowden, Ann. Ent. Soc. Amer. 27: 599-601, 1934.
- Slate, Conn. B. 347: 276, 1933.
- Weir, Can. Min. Agr. R. f. 1933/1934: 63.
- Rhyacionia (Evetria) frustrana (Pine tip-moth)**
- bDavault, Nat. Can. 59: 185-188, 1932.
- bDavault, Que. Soc. Prot. Pl. R. 23/24: 170-172, 1932.
- Felt, Nat. Shade Tree Conf. P. 8: 78, 1932.
- Felt, J. Ec. Ent. 26: 49, 1933.
- Hyde, USDA YB f. 1931: 58.
- Marlatt, USDA Ent. R. f. 1930: 48.
- Powell, Mich. St. Dept. Agr. Bien. R. 4: 44, 1930.

- Smith et al, J. Ec. Ent. 23: 113-118, 1930.
- bSoraci, N.J. Dept. Agr. C. 243: 56, '34.
- Rhyacionia frustrana—Parasites**
Wadley, P. Ent. Soc. Wash. 34: 28, '32.
- Rhyacionia frustrana bushnelli and young pines**
Graham & Baumhofer, J. For. 28(1): 54-65, 1930.
- Rhyacophila andrea**
in Betten, N.Y. St. Mus. B. 292: 127, '34.
- Rhyacophila carletoni**
in Banks, Psyche, 38: 69-70, 1931.
- Rhyacophila fairchildi**
Banks, Bklyn. Ent. Soc. B. 25: 130, '30.
- Rhyacophila glaberrima**
Carpenter, Psyche 40: 41, 1933.
- Rhyacophila lobifera**
in Betten, N.Y. St. Mus. B. 292: 131, '34.
- Rhyacophila montana**
in Carpenter, Psyche 40: 42, 1933.
- Rhyacophila sinensis**
in Martynov, PUSNM 79(25): 1-2, 1931.
- Rhyacophila torva**
Carpenter, Psyche 40: 40, 1933.
- Rhynchanthrax**
nPainter, J. Kans. Ent. Soc. 6: 6-10, '33.
- Rhynchephestia rhabdotis**
iSwezey, Hawaiian Ent. Soc. P. 8: 198-199, 1932; P. 8: 236, 1933.
- Rhynchites bicolor (F.) (Rose curulio)***
iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 35-36, 1934.
iMunro & Riddle, N.Dak. C. 42 rev.: 50, 1933.
Twinn, Ent. Soc. Ont. R. 64: 69, 1933; R. 65: 117, 1934.
- Rhynchites heros, lacunipennis**
bClausen, USDA C. 168: 15, 35, 1931.
- Rhynchocephalus, R. flavus, maculatus**
in Curran, Can. Ent. 63: 68-72, 1931.
- Rhynchomya nigeria, pollinosa**
nCurran, Amer. Mus. Nov. 506: 19-21, 1931.
- Rhynchophora**
Bradley, Bklyn. Ent. Soc. B. 25: 259-262, 1930.
nVan Dyke, Pan-Pac. Ent. 6: 149-165, 1930.
- Rhynchophorus ferrugineus**
Farley, Rev. de Agr. Cuba 12(6): 33-34, 1930.
- Wester, Rev. de Agr. Cuba 13(10): 36, 1932.
- Rhynchophorus palmarum ("Gru-gru beetle")**
Holloway, Facts about Sugar 26: 303-304, 1931.
- biMex. Agr. & Fomento. Principales Plagas: 161-162, 1930.
- Zetek, P. Ent. Soc. Wash. 36: 261, '34.
- Wolcott, Ec. Ent. of West Indies: 200-201, 1933.
- Rhynchoetaenia**
biShannon, P. Ent. Soc. Wash. 36: 108-109, 1934.
- Rhyncocephalus sackeni**
Graham, Can. Ent. 64: 167-168, 1932.
- iSpencer, B.C. Ent. Soc. P. 28: 21-24, 1931; P. 29: 25-27, 1932.
- Spencer, Can. Ent. 66: 87, 1934.
- Rhyncogonus**
Keifer, Ent. Amer. n.s. 13: 55, 1932.
- iSwezey, Hawaiian Ent. Soc. P. 8: 527-528, 1934.
- iVan Dyke, Bernice P. Bishop, Mus. B. 98: 23-52, 1932.
- Rhyncogonus simplex**
Swezey, Hawaiian Ent. Soc. P. 7: 382-383, 393, 1931; P. 8: 367, 368, 1934.
- Rhyncogonus spp.**
nVan Dyke, Bernice P. Bishop Mus. B. 98: 35-51, 1932.
- Rhyncogonus welchii**
nPerkins, Hawaiian Ent. Soc. P. 8: 269-270, 1933.
Swezey, Hawaiian Ent. Soc. P. 8: 364, 1934.
- Rhyparoclopius dubius**
nBarber, Ent. Amer. n.s. 10: 217-218, 1930.
- Rhyssa flaviceps**
Otero, Rev. de Agr. Cuba 15(5): 47, '34.
- Rhysssematus acutecostatus** 163, arizonicus 162-163, beutenmuelleri 161-162
nVan Dyke, Pan-Pac. Ent. 6: 1930.
- Rhysssemus mexicanus**
nHinton, Pan-Pac. Ent. 10: 29-30, 1934.
- Rhytidolomia rita**
nVan Duzee, Pan-Pac. Ent. 10: 96, 1934.
- Rhyzopus necans**
Lyne, Cal. Dept. Agr. Sp. Pub. 115: 151, 1932.

Rice insects

- Banks, Rice J. 37(4): 11, 1934.
 bClausen, USDA C. 168: 46-53, 1931.
 de Ong, J. Ec. Ent. 27: 1131-1132, '34.
 de Ong, Science, n.s. 79(2043 sup.): 5-6, 1934.
 Douglas, La. Bien. R. f. 1930/1931: 12-13.
 Douglass, Rice J. 35: 11-12, 1932.
 Hecke, Cal. Dept. Agr. Sp. Pub. 92: 8-9, 1929.
 Holloway, Sugar B. 12(6): 3-4, 1933.
 Kuwana, Pac. Sci. Cong. 4, P. 4: 209-216, 1930.
 biMex. Agr. & Fomento, Principales Plagas: 75-77, 1930.
 Nakayama, Pac. Sci. Cong. 4, P. 4: 181-183, 1930.
 iSanderson, Ins. Pests Farm, ed. 3: 292-294, 1931.
 Scaramuzza, Rev. de Agr. Cuba 13(8 sup.): 74-76, 1932.
 bStracener, J. Ec. Ent. 27: 767-771, '34.
 bUichanco, Pac. Sci. Cong. 4, P. 4: 569-582, 1930.
 van der Goot, Pac. Sci. Cong. 4, P. 4: 1-7, 1930.
Rice moth, see *Corcyra cephalonica*
Rice stalk borer, see *Chilo plejadellus
Rice stem borer, see *Chilo simplex*
Rice stinkbug, see *Solubea pugnax*
***Rice water weevil, see *Lissorhoptrus simplex* (Say)**
***Rice weevil, see *Sitophilus oryzae* (L.)**
Richenbachia utahensis
 inTanner, Ann. Ent. Amer. 27: 43-44, 1934.
Richardia telescopica
 Johannsen, Bklyn. Ent. Soc. B. 29: 95, 1934.
Rima, see *Rimanella*
Rimanella
 Needham, Amer. Mus. Nov. 664: 3, '33.
 Needham, Ent. News 45: 50, 1934.
Rimanella arcana
 inNeedham, Amer. Mus. Nov. 664: 3-4, 1933.
***Ring-legged earwig, see *Euborellia annulipes* (Lucas)**
Ripersia radiculicola (Round root mealy bug)

- Barreto, Asoc. Tecn. Azucar. Cuba P. 5: 132-134, 1931.
 Barreto, Facts about Sugar 27(3): 136, 1932.
 Leonard, Rev. Agr. P. R. 25: 63, 1930.
 Loftin, Asoc. Tecn. Azucar. Cuba P. 4: 55-56, 1930.
 Wolcott, Ec. Ent. of West Indies: 158-159, 1933.

Roaches, see Cockroaches**Roadside butterfly, see *Colias philodice*****Robber flies, see *Asilidae*****Rocky Mountain spotted fever**

- Badger, U.S. Pub. Health R. 48: 507-511, 1933.
 bBadger, Dyer, & Rumreich, U.S. Pub. Health R. 46: 463-470, 1931.
 Barber, U.S. Pub. Health R. 48: 791-795, 1933.
 Dyer, Mil. Surgeon, 72: 421-439, 1933.
 bJellison, U.S. Pub. Health R. 49: 363-367, 1934.
 biLillie, U.S. Pub. Health R. 46: 2840-2859, 1931.
 O'Donnell, Mont. St. Bd. Ent. Bien. R. 8: 40, 1930; R. 9: 7-11, 1932.
 Rumreich, Dyer & Badger, U.S. Pub. Health R. 46: 470-480, 1931.
 Spencer, U.S. Pub. Health R. 46: 2098-2101, 1931.
 bStrand, Mont. St. Bd. Ent. Bien. R. 9: 18-47, 1933.
 Tonkin, Wyo. St. Bd. Health. Bien. R. 11: 49-50, 1932.
 bToomey, Ann. Internal Med. 5: 585-612, 1931.
 bJ. Amer. Med. Assoc. 101: 607-608, '33.
 Sci. News Letter 24: 254, 1933.
Rocky Mountain spotted fever—Laboratory—Hamilton, Montana
 J. Ec. Ent. 26: 312, 1933.
Rocky Mountain spotted fever and Exanthematic typhus
 bDavis & Parker, U.S. Pub. Health R. 48: 1006-1011, 1933.
 Dyer, U.S. Health R. 48: 521-522, '33.
 Parker & Davis, U.S. Pub. Health R. 48: 839-843, 1933.
Rodolia cardinalis (Muls.) (Vedalia)*
 Berger, Fla. St. Hort. Soc. P. 45: 2, 132-133, 1932.

- Colon, P. R. Dept. Agr. & Comm. Inf. Ann. Span. ed. f. 1931-32: 43-44.
- iCressman & Dumestre, J. Agr. Res. 41: 197-203, 1930.
- Daviault, Nat. Can. 60: 180, 1933.
- iEssig, Hist. of Ent.: 123, 298-302, 1931.
- Gill, Ga. St. Ent. B. 77: 43, 47, 1933.
- Howard, Hist. of Appl'd Ent.: 502, '30.
- Maheux, Nat. Can. 59: 62, 1932.
- Otero, Rev. de Agr. Cuba 15(5): 46-47, 1934.
- iPeña, La Hacienda 25: 74, 1930.
- iSchultz, La Hacienda 28: 140, 1933.
- bSmith, Ann. Ent. Soc. Amer. 26: 520-522, 1933.
- iWatson & Berger, Fla. Ext. B. 67: 45-47, 1932.
- Roeseliopsis floridensis*
inGreene, P. Ent. Soc. Wash. 36: 30, '34.
- Rogas granulata*
nDeGant, P. Ent. Soc. Wash. 32: 163-164, 1930.
- Rogas metanastriae, naranzae*
nRohwer, P. Ent. Soc. Wash. 36: 46-48, 1934.
- Rogas unicolor*
Brown, USDA C. 176: 11, 1931.
Marlatt, USDA Ent. R. f. 1933, 30.
- Rohdendorfia*, see *Rohdendorfinia*
- Rohdendorfinia*
nTownsend, Ent. News 45: 213, 1934.
- Romaleum rufulum*
Siepmann, Bklyn. Ent. Soc. B. 28: 41, 1933.
- Roman weevil*, see *Brachyrhinus cribricollis*
- Root-eating insects**
bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 48-52, 1931.
Grimes, Kans. Bien. R. 7: 106-107, '34.
Whitcomb, Nat. Nurserym. 39(11): 5-6, 1931.
- Root-knot nematode**, see *Heterodera marioni*
- Root maggots**, see *Hylemya brassicae*
- **Rose aphid*, see *Macrosiphum rosae* (L.)
- Rose beetle*, see *Macroductylus subspinosus*
- **Rose chafer*, see *Macroductylus subspinosus*
- **Rose curculio*, see *Rhynchites bicolor* (F.)
- Rose insects**
iBrayton, Amer. Home 4: 325, 368, '30.
bBritton, Conn. B. 360: 471-472, 1934.
Caesar, Ont. B. 353: 39-42, 1930.
iCook & Walker, Va. Truck B. 79: 1060-1066, 1932.
iEssig & Hoskins, Cal. Ext. C. 87: 77-79, 1934.
Floyd & Watkins, Fla. B. 59: 24, 1930.
Floyd & Watkins, Fla. Ext. B. 78: 24, 1934.
Holmes, Commercial Rose Culture: 112-120, 1930.
Holmes, Rose Garden Primer: 154-163, 1930.
Leonard, J. Ec. Ent. 25: 934-935, 1932.
Lyle, J. Ec. Ent. 26: 973, 1933.
Metzger, J. Ec. Ent. 26: 205-210, 1933.
Murphy, Gard. Club Amer. B. Ser. 4(9): 101, 1930.
iPierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(6): 3-4, 1930.
Quint, Amer. Home 6: 90, 1931.
Scott, Kans. St. Hort. Soc. Bien. R. 41: 202, 1932.
Sheaffer, Ind. Dept. Conserv. Pub. 103: 61-64, 1930.
Stoutamire, Fla. Dept. Agr. B. n.s. 59: 29-30, 1932.
Tissot, Fla. Grow. 39(3): 16, 1931.
Watson, Fla. Grow. 38(5): 35, 1930; 40(4): 21, 1932; 41(4): 25, 1933.
Wildon, Mich. Sp. B. 222: 15-16, 1932.
Ziegler, Fla. Grow. 40(5): 22, 1932.
- **Rose leaf beetle*, see *Nodonota puncticollis* Say
- **Rose leafhopper*, see *Typhlocyba rosae*
- Rose leaf roller*, see *Platynota stultana*
- **Rose midge*, see *Dasyneura rhodophaga*
- **Rose root gall*, see *Rhodites radicum* O. S.
- **Rose sawfly*, see *Caliroa aethiops* (F.)
- **Rose scale*, see *Aulacaspis rosae* (Bouché)
- **Rosy apple aphid*, see *Anuraphis roseus*
- Rotenone*, see *Insecticides—Rotenone*;
Spray materials—*Rotenone*: also major pests, subhead, *Rotenone*
- Rothschildia coxeyi*
nSchaus, J. Wash. Acad. Sci. 22: 143-144, 1932.
- Rothschildia forbesi*
nBenjamin, Pan-Pac. Ent. 10: 13-16, 1934.

- Rothschildia** spp.
Benjamin, Pan-Pac. Ent. 10: 12-16, 1934.
- Rough-headed corn stalk-beetle**, *see* *Eue-theola rugiceps*
- Rough strawberry root-weevil**, *see* *Brachyrhinus rugosostriatus*
- *Roundheaded apple tree borer**, *see* *Saperda candida* F.
- *Roundheaded pine beetle**, *see* *Dendroctonus convexifrons* Hopk.
- Royal walnut-moth**, *see* *Citheronia regalis*
- Ruddy silverspot**, *see* *Argynnis alcestitis*
- Ruminants—Parasites**
Mohler, USDA YB f. 1933: 236-237.
- Russian gadfly**, *see* *Rhinoestrus nasalis*
- Rust mites**, *see* *Phyllocoptes* spp.
- Rust-red flour beetle**, *see* *Tribolium ferrugineum*
- Rust-red grain beetle**, *see* *Laemophloeus minutus*
- *Rusty plum aphid**, *see* *Hysteroneura setariae* (Thos.)
- *Rusty tussock moth**, *see* *Notolophus antiqua* (L.)
- Rutaceous tree insects**
bFlanders, Pan-Pac. Ent. 10: 145-150, 1934.
- Rutelinae**
iChapin, Ann. Ent. Soc. Amer. 25: 283-285, 1932.
nOhaus, J. Wash. Acad. Sci. 23: 473-478, 1933.
- Rutilia corona, formosina, pallens**
nCurran, Amer. Mus. Nov. 422: 2-4, '30.
- Rutilotrix**
nTownsend, J. N.Y. Ent. Soc. 40: 448, 1932.
- Rutuba perpugnax**
Barber, Ent. Amer. n.s. 10: 175-176, 1930.
- Sabethes cyaneus**
Shannon, P. Ent. Soc. Wash. 33: 155, 1931.
- Sabulodes caberata** (Omnivorous looper)
iEssig & Hoskins, Cal. Ext. C. 87: 24-25, 1934.
Hutchison, Cal. R. f. 1932/1934: 60.
McKenzie, Cal. Avocado Assoc. YB f. 1933: 33-35.
- Quayle, Cal. Avocado Assoc. YB f. 1932: 39.
- Sacadodes pyralis**
Howard, Hist. of Appl'd Ent.: 443-444, 1940.
- Saccharophagous mochisa**
Holloway, Facts about Sugar 25: 830, 1930; 26: 447-448, 1931.
- Saccharosydne saccharivora** (West Indian cane fly)
Wolcott, J. Ec. Ent. 24: 134-135, 1931.
biWolcott, Ec. Ent. of West Indies: 224-228, 1933.
- *Saddleback caterpillar**, *see* *Sibine stimulea* (Clem.)
- *Saddled prominent**, *see* *Heterocampa guttivitta* (Walk.)
- Saissetia cuneiformis**
Compere, Cal. Cit. 15: 563, 1930.
- Saissetia hemisphaerica** (Targ.) (Hemispherical scale)*
iEssig & Hoskins, Cal. Ext. C. 87: 51, 1934.
McDaniel, Mich. Sp. B. 214: 70, 1931.
bQuayle, Cal. B. 542: 47, 1932.
Rios & Reinart, P. R. Ins. C. 93: 30, 1931.
Steinweden, Cal. Agr. Mo. B. 19: 564-565, 1930.
Watson & Berger, Fla. Ext. B. 67: 32-33, 1932.
- Saissetia nigra**
Essig, Pan-Pac. Ent. 8: 36, 1931.
Pemberton, Hawaiian Ent. Soc. P. 8: 511, 1934.
iSteinweden, Cal. Agr. Mo. B. 19: 567-569, 1930.
- Saissetia oleae** (Bern.) (Black scale)*
iDoane, Common Pests: 177-178, 1931.
Essig, Hist. of Ent.: 139, 1931.
Flanders, J. Ec. Ent. 25: 1241, 1932.
Gardner, J. Ent. & Zool. 26: 30-33, '34.
McDaniel, Mich. Sp. B. 214: 70, 1931.
biMarshall, Wis. Acad. Sci. Trans. 25: 255-272, 1930.
- biMex. Agr. & Fomento. Principales Plagas**: 93-94, 1930.
- bQuayle, Cal. B. 542: 39-43, 70, 1932.
- biRohrbaugh, Pl. Physiol. 9: 699, 1934.
- Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 17; R. f. 1932: 11-22.

- iSanderson, Ins. Pests Farm, ed. 3: 459, 1931.
- iSteinweden, Cal. Agr. Mo. B. 19: 565-567, 1930.
- iVolck & Hunt, Cal. Spray-Chem. Corp. Res. B. July 1931: 9-10.
- iWatson & Berger, Fla. Ext. B. 67: 33, 1932.
- biWebster, J. Ec. Ent. 26: 1017-1018, 1933.
- Woglum, Cal. Fr. Grow. Exch. Bur. Pest Control B. 8: 2-5, 7-8, 10-13, 17-18, 1931.
- Woglum, Cal. Cit. 16: 410, 1931; 17: 383, 1932; 19: 262, 1934.
- Woglum, Cal. Fr. Grow. Exch. B. 11: 2-3, 5-6, 8, 11, 12, 14, 21, 1934.
- Saissetia oleae—Parasites
- Compere, Cal. Cit. 15: 533, 562-568, 1930.
- Compere, Cal. Univ. Pub. Ent. 5: 247-255, 1931.
- bSmith, Ann. Ent. Soc. Amer. 26: 522-523, 1933.
- Salina decorata
- inMills, Iowa St. Col. J. Sci. 6: 273, 1932.
- Salina maculata
- inFolsom, Hawaiian Ent. Soc. P. 8: 71, 1932.
- Salina wolcottii
- Wolcott, Ec. Ent. of West Indies: 241-242, 1933.
- Salpingogaster, S. bruneri, texano
- nCurran, Amer. Mus. Nov. 519: 5-7, '32.
- *Salt-marsh caterpillar, see Estigmene acraea (Drury)
- *Salt-marsh mosquito, see Aedes sollicitans (Walk.)
- Salt-marsh sandfly, see Culicoides sp.
- Salt water insects—Cal. Desert region
- bThorpe, Pan-Pac. Ent. 7: 145-153, '31.
- Saltusaphidina
- Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 905, 1931.
- Saltusaphis scirpus
- iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 906, 1931.
- Saltusaphis wanica
- inHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 266-267, 1931.
- Samia cecropia (Cecropia moth)*
- iBade, Gard. Chron. Amer. 35: 128, '31.
- iBeard, Amer. Boys' Bk. Bugs: 76-81, 1932.
- iFall, Kans. Acad. Sci. Trans. 36: 215-217, 1933.
- iHaller, Nature Mag. 21: 12-14, 1932.
- iMcDaniel, Mich. Sp. B. 243: 51-52, 1933.
- iMunro & Riddle, N.Dak. C. 42 rev.: 21-23, 1933.
- iSchmidt, Nature Study & Agr. rev.: 224-225, 1933.
- Stear, Ent. News 44: 48, 1933.
- Twinn, Ent. Soc. Ont. R. 65: 127, 1934.
- Samia cecropia and mice
- Davis, Bklyn. Ent. Soc. B. 27: 213, '32.
- Samia sp.
- Wickwire & Calale, Ent. News 44: 79-80, 1933.
- *San Jose scale, see Aspidiotus perniciosus Sanctanus
- nBall, J. Wash. Acad. Sci. 22: 10, 1931.
- Sanctanus—Key
- Oman, P. Ent. Soc. Wash. 36: 76, 1934.
- Sanctanus orbiculatus
- nBall, J. Wash. Acad. Sci. 22: 11, 1932.
- Sanctanus tectus
- inOman, P. Ent. Soc. Wash. 36: 75, 1934.
- Sand beach insects (Mobile, Ala.)
- Loding, Bklyn. Ent. Soc. B. 29: 43, '34.
- Sand cricket, see Stenopelmatus longispinus
- Sand fly, see Culicoides sp.
- Sand wasps, see Sphegidae
- *Sand wireworm, see Horistonotus uhlerii
- Saperda calcarata Say (Poplar borer)*
- Britton, Conn. B. 344: 148, 1933.
- Davis, Ind. Ext. B. 168: 22, 1930.
- Hamilton, Nat. Shade Tree Conf. P. 9: 70-71, 1933.
- iMcDaniel, Mich. Sp. B. 238: 9-10, 1933.
- iPeirson, Field Book of Destruct. For. Ins. ed. 2: 14, 1932.
- Saperda candida (Round-headed apple tree borer)*
- iAlden, Ga. St. Bd. Ent. B. 73: 22-24, 1930.
- iBritton, Conn. B. 344: 77-78, 1933.
- Burrell & Parris, J. Ec. Ent. 24: 711-716, 1931.
- iCaesar, Ont. B. 356: 46-48, 1930.

Saperda candida Cont'd

- Chambers & Thompson, Wis. Dept. Agr. B. 123: 14-15, 1931; B. 145: 18-19, 1933.
- iChurchill, Amer. Fr. Grow Mag. 52(2): 20-21, 27, 1932.
- iGoldman, Trans. Amer. Ent. Soc. 59, 98-99, 1932.
- Hamilton, Nat. Shade Tree Conf. P. 9: 68-71, 1933.
- Harris, Iowa Hort. Soc. Trans. 67: 25, 1932.
- Ladd, N.Y. (Gen.) R. 52: 66-69, 1933.
- iMcDaniel, Mich. Sp. B. 238: 5-6, 1933.
- Petch, Que. Pom. & Fr. Grow. Soc. R. 36: 98-99, 1929; R. 37: 47, 1930.
- Petch, Que. Soc. Prot. Pl. R. 22: 35-36, 1931.
- Petch, J. Ec. Ent. 25: 121-122, 1932.
- Pettit & Hutson, Mich. C. B. 137: 53-54, 1931.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins. notes 1(9): 2-3, 1930.
- iQuaintance & Siegler, USDA FB 1270 rev.: 80-83, 1931; FB 1666: 70-71, 1931.
- iRoss, Can. Dept. Agr. B. 129: 42-43, 1930.
- iSanderson, Ins. Pests Farm, ed. 3: 373-376, 1931.
- Turner, Engin. News-Rec. 111: 159-160, 178, 1933.
- Twinn, Ent. Soc. Ont. R. 65: 119, 1934.
- Saperda cretata* (Spotted apple tree borer)
- Hutson, Ent. Soc. Ont. R. 62: 47, 1932.
- iMcDaniel, Mich. Sp. B. 238: 6-7, 1933.
- iQuaintance & Siegler, USDA FB 1270 rev.: 85-86, 1931.
- Saperda fayi* (Thorn limb borer)
- Britton, Conn. B. 344: 115, 1933.
- Saperda obliqua*
- McDaniel, Mich. Sp. B. 238: 8, 1933.
- Saperda tridentata* Oliv. (Elm borer)*
- Felt & Bromley, Nat. Shade Tree Conf. P. 6: 16, 1930.
- iMcDaniel, Mich. Sp. B. 238: 7, 1933.
- Saperda vestita* Say (Linden borer)*
- Britton, Conn. B. 344: 125, 1933.
- McDaniel, Mich. Sp. B. 238: 8, 1933.
- Saphenista* spp.
- inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 352-355, 1931.

- Forbes, P.R. Dept. Agr. J. 15: 352-355, 1931.
- Sapotes longipilis*
- nVan Dyke, Pan-Pac. Ent. 10: 175-176, 1934.
- Saprinus dimidiatipennis*
- nLeng & Mutchler, J. N.Y. Ent. Soc. 42: 86, 1934.
- Sapromyzidae*
- Curran, Amer. Mus. Nov. 456: 18-21, 1931.
- iMalloch, Bernice P. Bishop Mus. B. 98: 3-12, 1932.
- Sapyga emarginata*
- bHicks, Univ. Col. Studies 21: 267-268, 1934.
- Sapyga minor*
- nRoberts, J. Kans. Ent. Soc. 6: 96-98, 1933.
- Sarcionus* spp.
- inVan Duzee, BAMNH 61: 194-197, '31.
- nVan Duzee, Amer. Mus. Nov. 599: 24, 1933.
- Sarcofahrtiopsis*, *S. capitata*
- nHall, BAMNH 66: 261, 1933.
- Sarcophaga*
- iHall, Ent. News 42: 217-219, 1931.
- Sarcophaga accurata* 264-265, *afficta* 283, *articulata* 284-285
- nHall, BAMNH 66: 1933.
- Sarcophaga assidua*
- Wilson, J. N.Y. Ent. Soc. 40: 89, 1932.
- Sarcophaga barbata*
- Swezey, Hawaiian Ent. Soc. P. 8: 373, 1934.
- Sarcophaga beameri*
- inHall, Pan-Pac. Ent. 8: 52-53, 1931.
- Sarcophaga calx* 279, *cassidifera* 271-272, *chirotheca* 266-267, *chrysostoma* 273-275, *chrysostomata* 267-268
- inHall, BAMNH 66: 1933.
- Sarcophaga coachellensis*
- nHall, Ann. Ent. Soc. Amer. 24: 182, 1931.
- Sarcophaga cooleyi*
- Twinn, Ent. Soc. Ont. R. 65: 128, 1934.
- Sarcophaga currani*
- inHall, Amer. Mus. Nov. 423: 2, 1930.
- Sarcophaga cyaniforceps* 282-283, *declinata* 263-264, *egregia* 276, *elaborata* 281-282, *gulo*, 268
- Hall, BAMNH 66, 1933.

- Sarcophaga haemorrhoidalis*
biMatheson, Med. Ent.: 378-379, 1932.
- Sarcophaga helioides*
Breakey, Ann. Ent. Soc. Amer. 24: 44, 1931.
- Sarcophaga hirsuta*
inHall, BAMNH 66: 268-270, 1933.
- Sarcophaga isla*
inCurran, Cal. Acad. Sci. P. ser. 4, 21: 169-170, 1934.
- Sarcophaga kellyi* (Grasshopper maggot)*
Cardon, Utah B. 235: 56, 1932.
Cridle Can. Dept. Agr. B. 143: n.s. 12, 1931.
Snodgrass, Smithsonian. Sci. Ser. 5: 19-21, 1930.
- Sarcophaga laakei*
inHall, Ann. Ent. Soc. Amer. 24: 181-182, 1931.
- Sarcophaga megista*
inHall, BAMNH 66: 278, 1933.
- Sarcophaga nox*
inHall, Ent. News 42: 217-219, 1931.
- Sarcophaga omani*
inHall, Pan-Pac. Ent. 8: 53-54, 1931.
- Sarcophaga ontariensis*
inHall, Can. Ent. 64: 102-103, 1932.
- Sarcophaga pedunculata*
in Hall, Ent. News 42: 284-285, 1931.
- Sarcophaga polistensis*
inHall, P. Ent. Soc. Wash. 35: 110-111, 1933.
- Sarcophaga postuncinata* 275, *pyrrhopyga* 265-266, *rapax* 266, *retrocita* 280-281, *retusa* 282, *rudicompages* 264, *sanguisuga* 283
inHall, BAMNH 66: 1933.
- Sarcophaga saraceni*
ibMcIndoo, J. Morph. 56: 445-475, 1934.
Stevenson, Common Animal Par. Inj. to Sheep in East. Can.: 43-44, 1931.
- Sarcophaga scelestia*
inHall, Ent. News 42: 285-286, 1931.
- Sarcophaga scelestia adunca*
inHall, BAMNH 66: 275, 1933.
- Sarcophaga semimarginalis*
inHall, Ent. News 42: 283-284, 1931.
- Sarcophaga setiforceps*
inHall, Amer. Mus. Nov. 423: 1, 1930.
- Sarcophaga taitensis*
biMalloch, Bernice P. Bishop Mus. B. 98: 13-14, 1932.
- Sarcophaga uncinata, urceola*
inHall, BAMNH 66: 271, 273, 1933.
- Sarcophaga (Blaseoxipha) valangae*
inAldrich, PUSNM 81(9): 15-17, 1932.
- Sarcophaga vesica*
inHall, BAMNH 66: 283-284, 1933.
- Sarcophaga welchi*
inHall, Amer. Mus. Nov. 423: 2-4, 1930.
- Sarcophaga williamsi*
inCurran, Cal. Acad. Sci. Proc. ser. 4, 21: 170-171, 1934.
- Sarcophagidae—Laboratory breeding**
Hall, Ann. Ent. Soc. Amer. 24: 181-182, 1931.
iHall, Can. Ent. 64: 102-103, 1932.
Riley & Johannsen, Med. Ent.: 380-382, 1932.
Shull, Ida. Ext. B. 80: 8, 1934.
- Sarcophagidae and disease**
biWalker, Can. Pub. Health J. 22: 504-507, 1931.
- Sarcophaginae**
Graenicher, Ent. News 42: 227-230, 1931.
inHall, Amer. Mus. Nov. 423, 1930, 4p.
inHall, Ent. News 42: 280-286, 1931.
iHall, BAMNH 66: 251-285, 1933.
- Sarcopsylla gallinacea* (Hen flea)
iAmer. Poult. J. 63(5): 2-3, 1932.
- Sarcopsylla penetrans*
Peraza, La Hacienda 25: 562-564, '30.
- Sarcoptes cati*
Rev. de Agr. Cuba 15(13): 55-56, 1934.
- Sarcoptes mutans*
North Amer. Vet. 11(10): 61-62, 1930.
- Sarcoptes scabiei* Deg. (Itch mite)*
Bryan, North Amer. Vet. 12(7): 46-47, 1931.
iButler, Vet. Med. 25: 323, 325, 1930.
Cecil, Text-book of Med. ed. 3: 512, 1934.
Davis, Ind. Ext. B. 105, rev. ed.: 8, '33.
Day, Productive Swine Husbandry, ed. 5: 307-308, 1933.
Faust, Sci. Month. 33: 230, 1931.
iGantz, Farm & Ranch 50(5): 3, 10, '31.
Hall, Outdoor Amer. 9(12): 16-17, '31.
Lain, N.C. Health B. 47(10): 9-10, '32.
biMatheson, Med. Ent.: 73-76, 1932.
Pantoja, Rev. Unidas 47(12): 51-52, 1931.

Sarcoptes scabiei Deg. *Cont'd*

biRiley & Johannsen, Med. Ent.: 54-61, 1932.

Robertson, Amer. Leather Chem. Assoc. J. 32: 554, 1932.

Stainton, North Amer. Vet. 15(9): 40-41, 1934.

Sarcoptes scabiei canis

iHall, USDA C. 338 rev.: 3-6, 1934.

Sarcoptes scabiei cuniculi

iSchwartz & Shook, USDA FB 1568 rev.: 5-6, 1931.

iRev. de Agr. Cuba 15(13): 53-55, 1934.

Sarcoptes scabiei equi (Horse mange mite)

iCameron, Can. Dept. Agr. B. 152: 18-19, 1931.

iMartin, Vet. Med. 25: 316-319, 1930.

Ormsby, Pract. Treat. Dis. Skin. ed. 4: 1064-1069, 1934.

iSchwartz, USDA C. 148: 39-42, 1930.

iSchwartz et al, USDA C. 148: 39-42, 1933.

Sarcoptes scabiei furonis

biAllen, Amer. Fur. Breeder 5(4): 8-10, (5): 24-25, 1932.

Sarcoptes scabei ovis

Stevenson, Common Animal Parasites Inj. to Sheep in Eastern Can.: 41-42, 1931.

Sarcoptes scabiei suis (Hog mange mite)

Caler, J. Kans. Ent. Soc. 4: 85, 1931.

iGraham, Successful Farm. 29(8): 8, 38, 1931.

Jones, South. Cult. 90(5): 11, 1932.

Kinsley, Vet. Med. 29: 468-469, 1934.

Russell, USDA FB 1437 rev.: 36, 1931.

iStouder, Iowa Ext. B. 165: 1930, 4p.

Sarcoptes sp.

bHansen, Amer. Fur. Breeder 5(7): 5, 1933.

Hanson, Black Fox Mag. 16(4): 12, '32.

iPatterson, Breeder's Gaz. 96(2): 26, 1931.

Smith, J. Kans. Ent. Soc. 5: 85, 1932.

Saronychium inconspicuum, *see* **Endynomena pradiieri****Saropogon**, **S. aridus**, **birdi**

nCurran, Amer. Mus. Nov. 487: 1-3, 1931.

Saropogon fletcheri, **pritchardi**

nBromley, Ann. Ent. Soc. Amer. 27: 90, 91, 1934.

Saropogon purus

nCurran, Amer. Mus. Nov. 425: 3-4, 1930.

Sarothromyia femoralis simplex

biHall, Ann. Ent. Soc. Amer. 25: 641-647, 1932.

Sataspes tagalica

nClark, New Eng. Zool. Club. P. 13: 40, 1932.

***Satin moth**, *see* **Stilpnolia salicis** (L.)**Satronia tantilla**

iHeinrich, PUSNM 79(13): 13, 1931.

Saturniidae

McDaniel, Mich. Sp. B. 243: 51-54, 1933.

Rau, St. Louis Acad. Sci. Trans. 26: 81-221, 1929.

Satyrium fuliginosa

Comstock, So. Cal. Acad. Sci. B. 32: 114, 1933.

Satyrium fuliginosa semiluna

inKlots, Bklyn. Ent. Soc. B. 25: 161-163, 1930.

Satyrodes canthus

Saunders, N.Y. St. Mus. Hdbk, 13: 172-174, 1932.

Saw-toothed grain beetle**, *see* **Oryzaephilus surinamensis** (L.)**Sawflies**, *see* **Tenthredinidae*Saxinis saucia**—**Oviposition**

biDuncan, Cal. St. Teach. Coll. Insects: 79-80, 1932.

Says's blister beetle**, *see* **Pomphopoea sayi** Lec.**Says's leaf hopper**, *see* **Latalus sayi**.Say's stinkbug**, *see* **Chlorochroa sayi** Stal.***Scab mite**, *see* **Psoroptes communis****Scaeva pyrastris**

Russell, Wis. B. 410: 54, 1930.

Scaevola gaudichaudiana

Swezey, Hawaiian Ent. Soc. P. 7: 383, 1931.

†Scale insects

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 25-28, 1931.

Brock, Cal. Agr. Mo. B. 19: 525-528, 1930.

Clark, Tex. R. 45: 207, 1932; R. 47: 238, 1934.

Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 59-61, 1930.

- Compton, Ill. St. Hort. Soc. Trans. 64: 430-432, 1930.
- Cory & Langford, Md. Ext. B. 68: 8-9, 1933.
- Crowley, Wash. B. 275: 65, 1932.
- Dean, Kans. St. Hort. Soc. Bien. R. 40: 149, 1930.
- DeBusk, Fla. Ext. R. f. 1932: 66.
- iDrake & Guthrie, Iowa Dept. Agr. YB 31: 18-43, 1931.
- Dunn, Amer. J. Pharm. 104: 676, 1932.
- iEngland & Turnipseed, J. Ec. Ent. 26: 987-989, 1933.
- iEssig, Sci. Month. 38: 182-183, 1934.
- Freeborn, J. Ec. Ent. 24: 1025-1031, 1931.
- Gardner, J. Ent. & Zool. 26: 29-33, '34.
- biHaas, J. Agr. Res. 49: 477-492, 1934.
- Harned, Miss. R. 44: 30-32, 1931.
- Hartung, Hawaiian Ent. Soc. P. 8: 26, 1932.
- iHaseman & Jones, Mo. B. 342: 13-18, 1934.
- Lutken, S.C. Wkly. News Notes 19 (27): 1, 1931.
- Lyle, Miss. R. 45: 28-29, 1932.
- iMcDaniel, Mich. C. B. 133, 1930, 17p.
- McDaniel, Mich. Sp. B. 214: 58-64, 1931.
- Mann, N.Y. (C) R. 43, Pt. 2: 42, 1931.
- iMunro & Riddle, N.Dak. C. 42 rev.: 51-53, 1933.
- iPartlow, Purdue Agr. 28: 34, 41, 1934.
- Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 47, 1930.
- Pierstorff & Parks, Ohio Ext. Pl. Dis. & Ins. Notes 1(1): 1, 1930.
- biQuayle, Cal. B. 542: 26-47, 65-72, '32.
- Smith, J. Kans. Ent. Soc. 5: 86-87, '32.
- Snapp, Tenn. St. Hort. Soc. R. 27: 14-15, 1931.
- Talbert & Swartwout, Mo. B. 301: 3-4, 1931.
- Wallace, Ind. Dept. Conserv. R. 11: 50, 1929.
- biWatson & Berger, Fla. Ext. B. 67: 6-16, 1932.
- bWoglum & LaFollette, J. Ec. Ent. 27: 978-980, 1934.
- biWolcott, Ec. Ent. of West Indies: 265-268, 378-410, 1933.
- Yothers & Miller, Fla. St. Hort. Soc. P. 46: 48-52, 1933.
- Scale insects—Fumigation**
bQuayle, Cal. B. 542: 65-67, 1932.
- Scale insects—Fungous diseases**
Ehrhorn, Hawaiian Ent. Soc. P. 7: 372, 1931.
- Scale insects—Hydrocyanic-acid fumigation resistance**
bQuayle, Cal. B. 542: 65-67, 1932.
- Scalida, S. fragilis, tricaudata**
inHebard, P. Acad. Nat. Sci. Phila. 81: 50-55, 1929.
- Scalimorphus minutus**
nBall, P. Biol. Soc. Wash. 46: 29, 1933.
- *Scaly leg mite, see Cnemidocoptes mutans**
- Scapheremaeus petrophagus**
biJacot, Ann. Ent. Soc. Amer. 27: 462-465, 1934.
- Scaphinotus confusus**
nDarlington, Psyche 38: 146-149, 1931.
- Scaphinotus snowi**
Nicolay & Weiss, J. N.Y. Ent. Soc. 42: 193-195, 1934.
- Scaphinotus viduus**
Knull, Ent. News, 45: 207, 1934.
- Scaphoideus discalis**
nVan Duzee, Cal. Acad. Sci. P. Ser. 4, 21(4): 31-32, 1933.
- Scaphoideus spp.**
nBall, J. Wash. Acad. Sci. 22(1): 9-19, 1932.
- Scaphytopius spp.**
nBall, Can. Ent. 63: 218-221, 1931.
Ball, Can. Ent. 64: 252, 1932.
- Scapteriscus acletus R. & H. (Southern mole cricket)***
Marlatt, USDA Ent. R. f. 1931: 42-43.
- Scapteriscus didactylus**
Bruner, Rev. de Agr. Cuba, 14(15/16): 94, 1933.
- Scapteriscus vicinus Scudd. (Changa)***
Holloway, Facts about Sugar 26: 447, 1931.
Kuntz, P.R. Ins. C. 98: 16, 1932.
Leonard, P.R. Ins. R. f. 1929/1930: 118, 1931.
- Scapteriscus vicinus**
Marlatt, USDA Ent. R. f. 1931: 42.
iRodriguez, P.R. Ins. C. 102: 19, 1933.
Wolcott, La Hacienda 26: 236, 1931.

Scapteriscus vicinus *Cont'd*

biWolcott, Ec. Ent. of West Indies: 533-540, 1933.

Scaptolenus fuscipennis, socius

nFall, Can. Ent. 64: 60, 61, 1932.

Scaptomyza biseta, latifrons

nMalloch, Bernice P. Bishop Mus. B. 98: 221-222, 1932.

Scarabaeidae

Blatchley, Fla. Ent. 14: 13-17, 25-35, 1930.

Cartwright, Ent. News, 45: 237-240, 268-269, 1934.

iChapin, Ann. Ent. Soc. Amer. 25: 173-209, 282-314, 1932.

nChapin, P. Biol. Soc. Wash. 47: 99-102, 1934.

Chapin, P. Ent. Soc. Wash. 36: 266, 1934.

Fall, J. N.Y. Ent. Soc. 40: 183-204, '32.

biMohr, Ill. St. Acad. Sci. Trans. 22: 263-284, 1930.

Saylor, J. Ent. & Zool. 26: 49-50, 1934.

Sim, J. N.Y. Ent. Soc. 38: 139-147, '30.

Scarabanena cylindricum

inChristie, J. Agr. Res. 42: 467-472, '31.

Scarites montanus

nMutchler, Amer. Mus. Nov. 686: 1-2, 1934.

Scarites subterraneus substriatus

Decker, Iowa Res. B. 143: 342, 1931.

Scatella bullacosta

nCresson, Trans. Amer. Ent. Soc. 60: 219-220, 1934.

Scatella galapagensis

nCurran, Cal. Acad. Sci. P. ser. 4, 21: 161-162, 1934.

Scatella laetifica

nCresson, Trans. Amer. Ent. Soc. 60: 217-218, 1934.

Scatella laxa

nCresson, Ent. News 44: 70, 1933.

Scatella notabilis

nCresson, Trans. Amer. Ent. Soc. 60: 218-219, 1934.

Scatella sexnotata

Bryan, Hawaiian Ent. Soc. P. 8: 3, '32.

Scatella stagnalis

Cresson, Trans. Amer. Ent. Soc. 56: 121-122, 1930.

Scatella troi

nCresson, Ent. News 44: 69-70, 1933.

Scatophaga amplipennis

Aldrich, PUSNM 81(9): 13-15, 1932.

Scatophaga furcata

Wilson, J. N.Y. Ent. Soc. 40: 90, 1932.

Scatophaga gigantea

nAldrich, PUSNM 81(9): 11-13, 1932.

Scatophila caviceps, quadriguttata

Cresson, Trans. Amer. Ent. Soc. 56: 130-131, 1930.

Scatopse atrata

Foster, Ent. News 44: 136, 1933.

Scatopse notata

Wilson, J. N.Y. Ent. Soc. 40: 87, 1932.

*Scavenger fly see Prodesmometopa latipes**Scelio pambertoni*

Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 49, 1932.

Pemberton, Facts about Sugar 27: 485, 1932.

Pemberton, Hawaiian Sugar Pl. Assoc. Exp. Sta. R. f. 1932: 21; R. f. 1934: 25.

biPemberton, Hawaiian Ent. Soc. P. 8: 231, 243, 253-264, 361, 394, 1933-1934.

iPemberton, Hawaiian Pl. Rec. 37: 7-9, 1933.

Rosa, Hawaiian Ent. Soc. P. 8: 372, 1934.

Swezey, Hawaiian Ent. Soc. P. 8: 228, 1933.

nTimberlake, Hawaiian Ent. Soc. P. 8: 155-157, 1932.

Scelio serdangensis

Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 49, 1932.

Pemberton, Facts about Sugar 27: 485, 1932.

nTimberlake, Hawaiian Ent. Soc. P. 8: 153-155, 1932.

Scelio sp.

Swezey, Hawaiian Ent. Soc. P. 8: 5, 1932.

Sceliphron assimile

Dow, Psyche, 39: 10-12, 1932.

Sceliphron caementarium

biBodine & Evans, Physiol. Zool. 7: 550-555, 1934.

iDow, B. Bost. Soc. Nat. Hist. 56: 13-15, 1930.

biDuncan, Cal. St. Teach. Coll. Insects: 79, 1932.

- Illingworth, Hawaiian Ent. Soc. P. 7: 352-353, 1931.
 Pemberton, Hawaiian Ent. Soc. P. 8: 376, 1934.
 iWalker, Flow. Grow. 17: 309, 1930.
 Weed, Insect Ways 159-162, 1930.
 Williams, Hawaiian Ent. Soc. P. 7: 344, 1931.
 Cornell Rur. School Leaf 24(4): 11-12, 1931.
 iSci. News Letter 24: 285, 1933; 25: 79, 1934.
Sceliphron caementarium—Parasites
 Palmer, Ill. St. Acad. Sci. Trans. 26: 136, 1934.
Scelostenopterina femorata
 Malloch, PUSNM 78(15): 24, 1931.
Scenopinus fenestralis (Pin worm)
 iHerrick, & Griswold, N.Y. (C.) Ext. B. 202 rev: 31-40, 1934.
 McDaniel, Mich. C. B. 144: 13, 1932.
Scheloribates spp.
 Jacot, Bernice P. Bishop Mus. B. 121: 53-61, 1934.
Schilosia scudderii
 inCockerell & Leveque, Amer. Nat. 65: 357-358, 1931.
Schistocerca alutacea
 Hebard, Minn. TB 85: 32-33, 1932.
Schistocerca americana (Drury) (American grasshopper)*
 iChamplain, Nature Mag. 18: 93, 1931.
 bHorsfall, Dowell & Palm, J. Kans. Ent. Soc. 6: 102, 1933.
 Marcovitch, Tenn. R. 45: 33, 1932.
 Thompson, Fla. Ent. 18: 5-10, 1934.
 Watson & Berger, Fla. Ext. B. 67: 119, 1932.
 iWeed, Insect Ways 79-82, 1930.
Schistocerca americana americana
 Hebard, Trans. Amer. Ent. Soc. 58: 278-279, 1932.
Schistocerca gregaria
 iArango, Rev. de Agr. Cuba 14(18): 34-37, 1933.
Schistocerca insignis
 inHebard, Trans. Amer. Ent. Soc. 58: 279-281, 1932.
Schistocerca lineata
 iCridle, Can. Ent. 64: 98-102, 1932.
Schistocerca obscura
 bHorsfall et al, J. Kans. Ent. Soc. 6: 102-103, 1933.
Schistocerca paranensis
 iArango, Rev. de Agr. Cuba 14(18): 36-37, 1933.
 biMex. Agr. & Fomento Principales Plagas: 36-45, 1930.
Schistocerca shoshone
 iHenderson, Utah C. 96: 28, 1931.
Schistocerea cornutus
 Wheeler & Darlington, Psyche 37: 111, 1930.
Schistoceros hamatus (F.) (Apple twig borer)*
 Dean, Kans. St. Hort. Soc. Bien. R. 40: 142, 1930.
 Kelly, Midwest Fruitman, 8(2/3): 7, 1934.
 iMunro & Riddle, N.Dak. C. 42 rev.: 12-13, 1933.
 Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 34, 1930.
Schistochilus, S. aristatum
 Aldrich, PUSNM 81(9): 18-19, 1932.
Schistonoea
 nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 378, 1931.
 nForbes P.R. Dept. Agr. J. 15: 378, '31.
Schistophila fuscella
 nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 371, 1931.
 nForbes, P.R. Dept. Agr. J. 15: 371, '31.
Schizaspidia calomyrmecis
 inBrues, Bklyn. Ent. Soc. B. 29: 206-207, 1934.
Schizochilus versicolor
 Smyth, J. Kans. Ent. Soc. 7: 107, 1934.
Schizocosa floridana
 inBryant, Psyche 41: 40-41, 1934.
Schizodactylus monstrosus—Chromosomes
 iMcClung & Asana, J. Morph. 55: 185-191, 1933.
Schizogenius arimao
 nDarlington, Psyche 41: 71-72, 1934.
Schizolachnus pini-radiatae
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 842-843, 1931.
Schizoneura *see* **Eriosoma**
Schizonotus sieboldi
 Jones J. Ec. Ent. 26: 513, 1933.

- Schizotachina ruficornis, vitinervis**
in Greene, P. Ent. Soc. Wash. 36: 33-34, 1934.
- Schizura concinna (S. & A.) (Red-humped caterpillar)***
Britton, Conn. B. 344: 77, 1933.
iCaesar, Ont. B. 356: 44-45, 1930.
iEssig & Hoskins, Cal. Ext. C. 87: 75, 1934.
iMcDaniel, Mich. Sp. B. 243: 23-24, 1933.
Pettit & Hutson, Mich. C.B. 137: 19, 1931.
iQuaintance & Siegler, USDA FB 1270, rev.: 45-46, 1931.
iRoss, Can. Dept. Agr. B. 129: 43-44, 1930.
Twin, Ent. Soc. Ont. R. 64: 70, 1933; R. 65: 119, 1934.
- Schizura paradisus**
nBenjamin, Pan-Pac. Ent. 8: 56, 1931.
- Schoenobius bicolorellus**
in Hoffmann, Mex. Univ. Nac. Inst. Biol. Anal. 5: 207, 1934.
- Schoenobius incertellus (Paddy borer of Japan)**
bClausen, USDA C. 168: 47-48, 1931.
Hadden, Hawaiian, Pl. Rec. 34: 26, '30.
Kuwana, Pac. Sci. Cong. 4, P. 4: 315-320, 1930.
iTieu, Pac. Sci. Cong. 4, P. 4: 396-400, 1930.
- Schoenobius incertellus—Parasites**
Kuwana, Pac. Sci. Cong. 4, P. 4: 379-382, 1930.
- Schoenomyza—Key**
Huckett, Trans. Amer. Ent. Soc. 60: 106-107, 1934.
- Schottella alba**
in Folsom, Hawaiian, Ent. Soc. P. 8: 54, 1932.
- Schumannia mexicana**
Barber, Ent. Amer. n.s. 10: 186-188, 1930.
- Schwarzalia**
nCurran, Fam. & Gen. North Amer. Diptera: 466, 1934.
- Sciablatta ega**
in Rehn, Trans. Amer. Ent. Soc. 58: 122-125, 1932.
- Sciapus armiger**
in Van Duzee, BAMNH 61: 168-170, '31.
- Sciapus divergens**
in Van Duzee, Amer. Mus. Nov. 599: 3-4, 1933.
- Sciapus dubiosus**
in Van Duzee, Amer. Mus. Nov. 569: 8-9, 1932.
- Sciapus pectoralis**
nVan Duzee, BAMNH 61: 168-169, '31.
- Sciapus tenuitarsus, see Psilopus (Sciapus) tenuis**
- Sciapus trisetosus**
in Van Duzee, Amer. Mus. Nov. 521: 2-4, 1932.
- Sciara**
biButt, Psyche 41: 51-56, 1934.
biDu Bois, J. Morph. 56: 161-192, 1932.
Metz, Amer. Nat. 64: 380-382, 1930.
- Sciara—Chromosomes**
Davenport, Carnegie Inst. Wash. YB 30: 49-51, 1931.
bMetz, P. Nat. Acad. Sci. 20: 31-36, '34.
biMetz & Gay, P. Nat. Acad. Sci. 20: 617-621, 1934.
iMetz & Schmuck, P. Nat. Acad. Sci. 17: 272-275, 1931.
Metz & Smith, P. Nat. Acad. Sci. 17: 195-198, 1931.
- Sciara—Sex**
Davenport, Carnegie Inst. Wash. YB 29: 50-52, 1930.
biMetz, Quar. Rev. Biol. 6: 306-312, '31.
biMetz & Schmuck, Genetics 16: 225-253, 1931.
- Sciara—Wing on postage stamp**
Curran, J. N.Y. Ent. Soc. 42: 363, '34.
- Sciara caesar**
iThompson, Ent. Soc. Ont. R. 60: 96, 1930.
- Sciara coprophila**
biDoyle, J. Morph. 56: 477-491, 1933.
- Sciara coprophila—Chromosomes**
biDuBois, P. Nat. Acad. Sci. 18: 352-356, 1932.
DuBois, Internat. Cong. Genetics 6, P. 2: 47-48, 1932.
bSchmuck & Metz, P. Nat. Acad. Sci. 18: 349-352, 1932.
Smith, Internat. Cong. Genetics 6, P. 2: 187-188, 1932.
- Sciara inconstans**
Giovannoli, Bailey, Cave Life of Ky.: 226, 1933.

- Sciara molakaiensis**
iIllingworth, Hawaiian Ent. Soc. P. 8: 535-539, 1934.
- Sciara pauciseta**
biSchmuck, Biol. B. 66: 224-227, 1934.
- Sciara pauciseta and potato scab**
MacLeod, N.Y. (C.) R. 46: 109-110, 1933.
- Sciara radialis**
inShaw, Can. Ent. 66: 233, 1934.
- Sciara spp.**
biButt, Ann. Ent. Soc. Amer. 27: 565-579, 1934.
Fulton, J. Ec. Ent. 26: 512-513, 1933.
Herrick, Rur. N.Y. 90: 489, 1931.
McDaniel, Mich. Quar. B. 15: 72-74, 1932.
McDaniel, Can. Hort. Fr. & Truck ed. 56: 50, 70, 1933.
MacLeod & Butcher, J. Ec. Ent. 27: 106-108, 1934.
iMacLeod & Rawlins, N.Y. (C.) B. 569: 6-7, 1933.
- Sciocoris longifrons**
inBarber, P. Ent. Soc. Wash. 34: 149-150, 1932.
- Sciomyza hawaiiensis**
Bryan, Hawaiian Ent. Soc. P. 8: 27, 1932.
- Scione aurulans**
Bequaert, J. N.Y. Ent. Soc. 39: 537-538, 1931.
- Sciophites obscurus**
Baker, Wash. St. Hort. Soc. P. 26: 184, 1930.
- Scipopus belzebul** 326-327, **erythrocephala** 325-326, **frit** 327-328, **limbativertex** 328
Cresson, Trans. Amer. Ent. Soc. 56: 1930.
- Scirpophaga auriflua**
bClausen, USDA C 168: 54, 1931.
Hazelhoff, Facts about Sugar 26: 321, 1931.
iHazelhoff, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 66 [P. Pt. 2], 1932, 8p.
Holloway, Facts about Sugar, 25: 830-831, 1930.
bLeonard, Rev. Agr. P.R. 25: 63, 1930.
van Dillewijn, Facts about Sugar 27: 454, 1932.
- Scirtothrips citri (Moult.) (Citrus thrips)***
Bottel, Cal. Cit. 15: 368, 1930.
Bottel, Cal. Agr. Mo. B. 19: 378-379, 1930.
Chandler, Cit. Leaves 10(4): 7, 26, '30.
iEbeling, Cal. Agr. Mo. B. 22: 381-384, 1933.
Kenyon, Cal. Cult. 78: 488, 1932.
LeRoy, Cal. Cit. 18: 206, 1933.
iLewis, Cal. Cit. 17: 130, 168, 1932.
iLockwood, Cit. Leaves 12(6): 7-8, '32.
biLockwood, Cal. Agr. Mo. B. 22: 336, 341, 1933.
iMcGregor, Cal. Cit. 16: 358, 386, 1931; 18: 128, 160, 1933.
iMcGregor, Cit. Leaves 11(8): 1-2, 32-34, 1931.
Marlatt, USDA Ent. R. f. 1933: 10.
Moulton, J. Ec. Ent. 24: 1033, 1931.
Prior, Pac.-Rur. Press 125: 238, 1933.
biQuayle, Cal. B. 542: 22-24, 1932.
iSanderson, Ins. Pests Farm. ed. 3: 470-471, 1931.
iVolck & Hunt, Cal. Spray-Chem. Corp. Res. B. July 1931: 17-18.
Whitney, Cal. Cult. 74: 622-623, 1930.
Woglum, Cal. Fr. Grow. Exch. B. 8: 11-12, 21-22, 1931; B. 9: 10-11, '32.
Woglum, Cal. Cit. 18: 164, 178-179, 1933.
- Scirtothrips citri—Sulphur**
iLockwood, Cit. Leaves 12(6): 7-8, '32.
iMcGregor, Cal. Cit. 19: 232, 254-256, 1934.
Marlatt, USDA Ent. R. f. 1932: 6.
biMcGregor, J. Ec. Ent. 27: 543-546, '34.
Quayle, Cit. Leaves 13(3): 19-20, 1933.
USDA YB f. 1933: 35.
- Scirtothrips longipennis**
Keifer, Cal. Agr. Mo. B. 20: 345, 1931.
- Scobicia declivis (Lead cable borer)***
iPickett, Pac. Rur. Press 127: 551, '34.
- Scolia dubia**
Felt, J. Ec. Ent. 26: 46, 1933.
Rau, Bklyn. Ent. Soc. B. 27: 59-62, '32.
- Scolia japonica**
biClausen, USDA TB 308: 27, 1932.
- Scolia manilae, see Campsomeris marginella modesta**
- Scoliidæ**
biClausen, Jaynes & Gardner, USDA TB 366: 27-51, 1933.

Scoliidae Cont'd

biLopez, Internat. Soc. Sugar Cane
Tech. Cong. 4, B. 50 [P. Pt. 2]: 1-6,
1932.

Mann, N.Y. (C) R. 43, Pt. 2: 44, 1931.

Scolopendra subspinipes

Lawrence, Hawaiian Ent. Soc. P. 8:
497-498, 1934.

biWilliams, Handb. Insects . . . Hawai-
ian Sugar Cane Fields: 317-319, '31.

Scolops (Belonocharis) californicus

inLawson, J. Kans. Ent. Soc. 3: 69-70,
1930.

Scolops cockerelli

Lawson, Can. Ent. 62: 120-122, 1930.

Scolops excultus

inLawson, J. Kans. Ent. Soc. 3: 69, 1930.

Scolops graphicus

nBall, Pan-Pac. Ent. 7: 9-10, 1930.

Scolops neomexicanus, texanus

inLawson, J. Kans. Ent. Soc. 3: 67-69,
1930.

Scolops uhleri

nBall, Pan-Pac. Ent. 7: 10-11, 1930.

Scolothrips sexmaculatus

Kirkpatrick, Cal. Cult. 80: 347, 1933.
Mahoney, Cal. Agr. Mo. B. 19: 452,
1930.

biQuayle, Cal. B. 542: 18, 1932.

Scolytidae (Bark beetles)

iMcDaniel, Mich. Sp. B. 238: 21-30,
1933.

Scolytus

bBlackman, USDA TB 431, 1934, 30p.

Scolytus abietis 21-22, **fagi** 11-12, **fiskei**
25, **laricis** 24-25, **monticolae** 15-16

bBlackman, USDA TB 431: 1934.

Scolytus multistriatus Marsham (Smaller
European elm bark beetle)*

Bailey, Vt. Com. Agr. Bien. R. 17: 75-
76, 1934.

bBlackman, USDA TB 431: 27, 1934.

Britton, Conn. B. 260: 477, 1934.

Felt, J. Ec. Ent. 26: 49, 1933.

**Scolytus multistriatus and Dutch elm dis-
ease**

Beattie, J. Wash. Acad. Sci. 23: 488,
1933.

Beattie, J. Ec. Ent. 27: 569-570, 1934.

iBeattie, USDA YB f. 1934: 189-190.

Dodge, J. N.Y. Bot. Gard. 34: 170-171,
1933.

Felt, J. Ec. Ent. 27: 315-319, 1934.

iKnull, J. Ec. Ent. 27: 865-866, 1934.

bMcLaine, Ent. Soc. Ont. R. 64: 42-43,
1933.

iMay, USDA C. 322, 1934, 19p.

Middleton, P. Ent. Soc. Wash. 36: 264,
1934.

Scolytus opacus, oregoni

bnBlackman, USDA TB 431: 18-21, '34.

Scolytus piceae

bBlackman, USDA TB 431: 26-27, '34.
Knull, Ent. News 43: 65, 1932.

Scolytus praeceps

bBlackman, USDA TB 431: 20, 1934.

Scolytus quadrispinosus Say (Hickory
bark beetle)*

bBlackman, USDA TB 431: 16-17, '34.

Britton, Conn. B. 344: 117, 1933.

Davis, Ind. Ext. B. 168: 21-22, 1930.

Felt, J. Ec. Ent. 27: 318, 1934.

Felt & Bromley, Nat. Shade Tree Conf.
P. 6: 15, 1930.

Felt & Bromley, J. Ec. Ent. 25: 44, '32.

Lawrence, Bartlett Tree Res. Lab.
Radio Tree Talks III: 30, 1930.

iMcDaniel, Mich. Sp. B. 238: 22-25,
1933.

iPettit, Mich. Ent. R. f. 1930: 15.

iPettit, Mich. St. Bd. Agr. R. 69: 217,
1930; R. 72: 231, 1933.

Porter, North. Nut Grow. Assoc. R. 23:
79-80, 1932.

Scolytus reflexus, robustus

bnBlackman, USDA TB 431: 13, 19, '34.

Scolytus rugulosus (Shot-hole borer)*

bBlackman, USDA TB 431: 10-11, '34.

iBritton, Conn. B. 344: 138, 1933.

Burke, Cal. Agr. Mo. B. 21: 368-369,
1932.

iCaesar, Ont. B. 356: 59-61, 1930.

iDavis & Gardner, Ind. Ext. B. 176:
11-12, 1931.

Eddy et al, Ky. B. 353: 226, 1934.

Felt, J. Ec. Ent. 26: 49, 1933.

Harris, Iowa Hort. Soc. Trans. 67: 25-
26, 1932.

Hutson, Mich. Quar. B. 14: 28, 1931.

iHutson, Mich. Sp. B. 244: 30-32, 1933.

Knull, Ent. News 45: 211, 1934.

iLockwood, Cal. Agr. Mo. B. 18: 770,
1929.

- iMcDaniel, Mich. Sp. B. 238: 26-27, 1933.
 Moulton, Cal. Agr. Mo. B. 20: 747, '32.
 Parrot, N.Y. St. Hort. Soc. P. 76: 26-27, 1931.
 Parrott, Farm Res. 1(2): 6, 1934.
 Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 8.
 Pettit, Mich. Quar. B. 13: 86, 1930.
 Pettit & Hutson, Ent. Soc. Ont. R. 61: 33-34, 1931.
 iPettit & Hutson, Mich. C. B. 137: 55-56, 1931.
 Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(9): 4, 1930.
 iQuaintance & Siegler, USDA FB 1270 rev.: 75-77, 1931; FB 1666: 78-79, 1931.
 Ross & Putman, Ent. Soc. Ont. R. 64: 39, 1933.
 iSanderson, Ins. Pests Farm ed. 3: 300-302, 1931.
 Schedl, Can. Ent. 64: 1, 1932.
 iSmith, Cal. Ext. C. 64, 1932, 13p.
 biSoraci, N.J. Dept. Agr. C. 243: 40-42, 1934.
 Wolcott, Ec. Ent. of West Indies: 201-202, 1933.
- Scolytus rugulosus—Parasites**
 Bentley, Tenn. St. Hort. Soc. P. 25: 92, 1930.
- Scolytus rugulosus and Dutch elm disease**
 Felt, J. Ec. Ent. 27: 318, 1934.
- Scolytus (Californicus) scolytus**
 bBlackman, USDA TB 431: 22-23, '34.
 Felt, J. Ec. Ent. 27: 317, 1934.
- Scolytus scolytus and Dutch elm disease**
 Beattie, J. Wash. Acad. Sci. 23: 488, 1933.
 Beattie, J. Ec. Ent. 27: 569-570, 1934.
 iBeattie, USDA YB f. 1934: 189-190.
 iFelt, Bartlett Tree Res. Lab. Ed. B. 60, 1933, 23p.
 iKnoll, J. Ec. Ent. 27: 865-866, 1934.
 biLinder, Mo. Bot. Gard. B. 19: 66-67, 1931.
 iMay, USDA C. 322, 1934, 19p.
 Middleton, P. Ent. Soc. Wash. 36: 264, 1934.
- Scolytus sobrinus**
 bnBlackman, USDA TB 431: 23-24, '34.
- Scolytus spp. (Shot-hole borers)**
 Watson & Berger, Fla. Ext. B. 67: 112, 1932.
 Scolytus subscaber 17-18, sulcatus 12-13, tsugae 15
 bBlackman, USDA TB 431: 1934.
 Scolytus unispinosus Lec. (Douglas fir engraver)*
 bBlackman, USDA TB 431: 26, 1934.
 Scolytus ventralis Lec. (Fir engraver)*
 bBlackman, USDA TB 431: 22, 1934.
 Marlatt, USDA Ent. R. f. 1930: 47; R. f. 1932: 23.
 Struble, J. Ec. Ent. 24: 775, 1931.
- Scolytus wickhami**
 bnBlackman, USDA TB 431: 13-14, '34.
- Scooters, see Pseudosinella violenta**
- Scorpion-flies, see Mecoptera**
- Scorpions**
 bBaerg, Ann. Ent. Soc. Amer. 27: 527-532, 1934.
 biHilton, J. Ent. & Zool. 23: 49-55, 1931; 24: 33-34, 45-46, 1932.
 iHoffmann, Mex. Univ. Inst. Biol. Anal. 2: 291-409, 1931; 3: 244-361, 1932.
 iKurata, Can. Field-Nat. 44: 28-30, '30.
 biRiley & Johannsen, Med. Ent.: 34-37, 1932.
 iWoodward, Travel 62(2): 37-38, 1933.
- Scotogramma hamata**
 inStewart, Can. Ent. 62: 183, 1930.
- Scotogramma oregonica**
 nMcDunnough, Can. Ent. 62: 181-183, 1930.
- Scotogramma trifolii (Rott.) (Clover cutworm)***
 Cook, Can. Ent. 62: 272, 1930.
 biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
 iSmith, J. Kans. Ent. Soc. 7: 46, 1934.
- Scotorythra paludicola**
 Swezey, Hawaiian Ent. Soc. P. 7: 494-495, 1931.
- Scraper, S. semirufa**
 iCockerell & Ireland, P. Nat. Acad. Sci. 19: 972-978, 1933.
- Screens, see Insects—Control—Screening**
- *Screwworm, see Cochliomyia americana**
- Scudder, see Phaneroptera**
- *Scurfy scale, see Chionaspis furfura**
- Scutella quadrinotata**
 nCresson, Ent. News 44: 70, 1933.

Scutellerinae—Cuba—Key

Barber & Bruner, P.R. Dept. Agr. J.
16: 240-241, 1932.

Scutelleroidea

Hedrick, N.Y. (Gen.) R. 51: 57-58, '32.

biQuayle, Cal. B. 542: 53-54, 1932.

Scutellista cyanea

bEssig, Hist. of Ent.: 335-337, 1931.

bSmith, Ann. Ent. Soc. Amer. 26: 523-
524, 1933.

Scutellista sp.

Flanders, J. Ec. Ent. 25: 1241, 1932.

Scutellorthellia

nTownsend, J. N.Y. Ent. Soc. 40: 439,
1932.

Scutigera forceps Raf. (House centipede)*

iParks & Jones, Ohio Ext. B. 97 rev.:
28, 1933.

Scutigerella immaculata (Newp.) (Garden centipede)*

iCompton, Ill. St. Nat. Hist. Surv. Ent.
Ser. C. 12: 96-99, 1930.

biFilinger, Ohio B. 446: 86, 1930; B. 486:
1931, 33p.

Filinger, Ohio Veg. Grow. Assoc. P.
16: 96-101, 1931.

Hilton, Ann., Ent. Soc. Amer. 24: 538-
539, 1931.

Hutchison, Cal. R. f. 1930/1931: 69,
1932.

Jardine, Oreg. R. f. 1928/1930: 89.

McDaniel, Mich. Sp. B. 214: 26-28,
1931.

bMichelbacher, Cal. B. 548: 1932, 19p.

Mumford, Ill. R. 45: 143, 1932.

Pettit, Mich. Ent. R. f. 1930: 11.

Pettit, Mich. St. Bd. Agr. R. 69: 213,
1930.

iSheaffer, Ind. Dept. Conserv. Pub. 103:
54-55, 1930.

Thomas, Penn. B. 293: 21, 1933.

Thompson, USDA FB 1646: 24, 1930.

biWymore, Cal. B. 518, 1931, 22p.

Scutigerella immaculata—Losses from

Mumford, Ill. R. 46: 149, 1933.

Scutigerellinae

Hilton, Ann. Ent. Soc. Amer. 24: 537-
538, 1931.

Scymnillodes atrox 493-494, bruneri, 490-491, caseyi 492, gilvifrons, 493, iris 491.

nChapin, J. Wash. Acad. Sci. 20: 1930.

Scymnillodes splendidus

nChapin, J. Wash. Acad. Sci. 20: 491-
492, 1930.

Otero, Rev. de Agr. Cuba 15(5): 48,
1934.

Scymnus bahamicus

Otero, Rev. de Agr. Cuba 15(5): 48,
1934.

Scymnus bipunctatus, nebulosus

Cole, J. Ec. Ent. 26: 858, 859, 1933.

Scymnus ocellatus

Illingworth, Hawaiian Ent. Soc. P. 7:
380, 1931.

Scymnus pictus

Chock, Hawaiian Ent. Soc. P. 8: 237,
1933.

Swezey, Hawaiian Ent. Soc. P. 8: 218-
219, 1933.

Scymnus quercus

nNunenmacher, Pan-Pac. Ent. 10: 18,
1934.

Scymnus roseicollis

Loftin & Christenson, Internat. Soc.
Sugar Cane Tech. Cong. 4, B. 115
[P. Pt. 2]: 10, 1932.

Otero, Rev. de Agr. Cuba 15(5): 50,
1934.

Scymnus schuberti, scotti

nNunenmacher, Pan-Pac. Ent. 10: 17-18,
1934.

Scymnus smithianus

Clausen & Berry, USDA TB 320: 40-
41, 1932.

Scymnus terminatus

iWatson & Berger, Fla. Ext. B. 67: 76-
77, 1932.

Scyphophorus acupunctatus

biMex. Agr. & Fomento, Principales
Plagas: 145-146, 1930.

Sea-louse, see Limnoria lignorum**Seagull Monument—Destruction of crickets**

iHenderson, Utah C. 96: 12, 1931.

Secodella, see Euderus***Secondary screwworm, see Cochliomyia macellaria F.****Sectonema, S. ventralis**

binThorne, J. Agr. Res. 41: 464-465, 1930.

Sedulothrips tristis

nHood, J. N.Y. Ent. Soc. 41: 434, 1933.

***Seed-corn maggot, see Hylemya cilicrura**

Seed disinfection

- Hawkins, USDA YB f. 1934: 290.
 Farm & Dairy, Ont. 49: 210, 1930.
 Purdue Agr. 25: 4, 20, 1930.

Seedling cotton insects, see Cotton seedlings—Insects**Seiulus sp.**

- Ross & Putman, Ent. Soc. Ont. R. 64:
 37, 1933.

Sejus pomi

- iBorden, Cal. C. 324: 6, 1932.
 iHanson, Wash. B. 279: 9-10, 1933.
 biSmith & Hansen, Cal. B. 506: 38-39,
 1931.

Selandria

- Ross, Can. Ent. 62: 184-189, 1930.

Selandria (Aneugmenus) urbis

- inRoss, Can. Ent. 62: 186-189, 1930.

Selene bilunaria

- Harrison, J. Heredity 22: 323-324, '31.

Selenophorus—Key

- Darlington, Psyche 41: 103-105, 1934.

Selenophorus puertoricensis

- nMutchler, Amer. Mus. Nov. 686, 5, '34.

Selenophorus spp.

- nDarlington, Psyche 41: 103-110, 1934.

Selenothrips rubrocinctus (Giard) (Red-banded thrips)*

- Bruner, Cuba Sec. Agr. Com. y Trab.
 C. 75: 5, 1931.

Semanotus lignea var. thujae

- Hopping, Can. Ent. 63: 235-236, 1931.

Semicolon butterfly, see Polygonia interrogationis**Semitropical armyworm, see Prodenia eridania****Senna insects**

- Weiss & Rex, J. Ec. Ent. 27: 557-558,
 1934.

Senoceria, S. spinifemorata

- inHull, Trans. Amer. Ent. Soc. 56: 144-
 146, 1930.

Serica

- iDawson, J. N.Y. Ent. Soc. 40: 529-
 548, 1932.

Serica acontia, alternata patruela

- nDawson, J. N.Y. Ent. Soc. 41: 437-
 438, 1933.

Serica brunnea

- iSim, J. N.Y. Ent. Soc. 40: 382, 1932.

Serica caliginosa 533, chaetosoma 529-

- 530, cucullata 543, evidens 539-540,
 falli 534-535

- inDawson, J. N.Y. Ent. Soc. 40: 1932.

Serica flacata

- nDawson, J. N.Y. Ent. Soc. 41: 439, '33.

- Serica georgiana**, 536-537, **imitans** 546-
 547, **intermixta** 540, **iricolor** 547-548,
ligulata 535-536

- inDawson, J. N.Y. Ent. Soc. 40: 1932.

Serica parallela

- iSim, J. N.Y. Ent. Soc. 40: 381, 1932.

- iSim, USDA C. 334: 6-7, 1934.

- Serica pavonia** 533-534, **personata** 531-
 532, **praetermissa** 536

- inDawson, J. N.Y. Ent. Soc. 40: 1932.

Serica prava

- nDawson, J. N.Y. Ent. Soc. 41: 440, '33.

Serica pusilla errans

- iDawson, J. N.Y. Ent. Soc. 40: 538-
 539, 1932.

Serica repanda, senta

- nDawson, J. N.Y. Ent. Soc. 41: 439-440,
 1933.

Serica sericea

- iDawson, J. N.Y. Ent. Soc. 40: 542-
 544, 1932.

- iSim, J. N.Y. Ent. Soc. 40: 380, 1932.

Serica similis

- iSim, J. N.Y. Ent. Soc. 40: 381-382, '32.

- iSim, USDA C. 334: 6, 1934.

Serica spp.

- Quayle, Cal. Avocado Assoc. YB f.
 1932: 39.

- Sim, J. N.Y. Ent. Soc. 40: 379-382, '32.

Serica stygia

- nDawson, J. N.Y. Ent. Soc. 41: 439-
 440, 1933.

Serica tristis

- Twinn, Ent. Soc. Ont. R. 65: 121, 1934.

Serica trociformis

- iDawson, J. N.Y. Ent. Soc. 40: 544-
 545, 1932.

Serica trociformis blatchleyi

- inDawson, J. N.Y. Ent. Soc. 40: 545-546,
 1932.

Serica ventura

- inDawson, J. N.Y. Ent. Soc. 40: 530-531,
 1932.

Sericophanes albomaculatus

- nKnight, Ent. News 41: 320-321, 1930.

- Sericophoromyiops**
nTownsend, J. N.Y. Ent. Soc. 40: 470-471, 1932.
- Sericoplema rubronitens**
iRau, Sci. Month. 33: 563-564, 1931.
- Sericopompilus bivittatus**
nBanks, Amer. Acad. Arts & Sci. P. 69(1): 97, 1934.
- Sericopompilus fumosus**
nBanks, Psyche 40: 5-6, 1933.
- Sericothrips tiliae**
inHood, Bklyn. Ent. Soc. B. 26: 151-154, 1931.
- Sericothrips variabilis**
Bailey, Ent. News 44: 15, 1933.
iGaines, J. Ec. Ent. 27: 740-743, 1934.
- Sericulture**
Essig, Hist. of Ent.: 231-236, 1931.
- Sericulture—U.S.—Colonial times**
iHostetler, Amer. For. 40: 249-250, 283, 1934.
- Sericus rugosus**
bnVan Dyke, Cal. Acad. Sci. P. ser. 4, 20: 452, 1932.
- Seridentus consimilis, denticulatus**
nBarber, Ent. Amer. n.s. 10: 206-209, 1930.
- *Serpentine leaf miner, see Agromyza pusilla Meig.**
- Serphoidea**
biGahan, USDA Misc. Pub. 174: 4-25, 1933.
Whittaker, P. Ent. Soc. Wash. 32: 129-135, 1930.
- Sesamia cretica—Yugoslavia**
biHergula, Internat. Corn Borer Invest. Sci. R. 3: 124-129, 1930.
- Sesamia inferens**
iTieu, Pac. Sci. Cong. 4, P. 4: 396-400, 1930.
- Sesia acerni, see Conopia acerni**
- Sesia pictipes, see Conopia pictipes**
- Sesia rhododendri, see Conopia rhododendri**
- Sesia tipuliformis, see Conopia tipuliformis**
- Setacera pedalis**
nCresson, Trans. Amer. Ent. Soc. 56: 117, 1930.
- Setasiphona**
nTownsend, J. N.Y. Ent. Soc. 42: 248, 1934.
- Seventeen year locust, see Magicada septendecim**
- Sewage plants. Fauna**
bHerms, Sewage Works J. 2: 115-119, 1930.
Rudolfs, N.J. Mos. Exterm. Assoc. P. 19: 56-60, 1932.
- Sexton beetle, see Necrophorus spp.**
- Shade tree insects**
Albright, U.S. Dept. Int. Park Serv. R. f. 1931: 27-28.
Britton, Conn. B. 315: 495-497, 1930; B. 327: 466-469, 1931.
Britton, Nat. Shade Tree Conf. P. 7: 41-46, 1931.
Bromley, Bartlett Tree Res. Lab. Radio Tree Talks III: 20-23, 1930.
iBromley, Arts & Decorations, 36: 64, 1931.
iBurke, Cal. Agr. Mo. B. 21: 358-369, 1932.
Burke, Nat. Shade Tree Conf. P. 9: 49-59, 1933.
Caesar & Ross, Ent. Soc. Ont. R. 63: 19-20, 1932.
Call, Kans. Bien. R. 5: 113-115, 1930.
iChambers & Thompson, Wis. B. 124: 1058, 1931.
Collins, Nat. Shade Tree Conf. P. 7: 129-131, 1931.
iCory & Langford, Md. Ext. B. 68, 1933, 13P.
Curtis & Wyman, N.Y. (C.) Ext. B. 287, 11, 1934.
Davis, Ind. Ext. B. 168, 1930, 36P.
Davis, Ind. Acad. Sci. P. 43: 199, 1933.
biDeLong, Ohio J. Sci. 34: 196, 1934.
Doane, Common Pests: 253-275, 1931.
Eaton, Nat. Shade Tree Conf. P. 8: 53, 1932.
Felt, Bartlett Tree Res. Lab. Ed. B. 18, 1930, 35P.
Felt, Bartlett Tree Res. Lab. Radio Tree Talks, Pt. 3: 8-11, 1930.
Felt, J. Ec. Ent. 23: 109-113, 1930; 26: 45-51, 1933; 27: 195-200, 1934.
Felt, Nat. Shade Tree Conf. P. 7: 66-73, 1931; P. 8: 17-19, 76-82, 1932; P. 9: 3-10, 1933; P. 10: 37-43, 1934.
Felt, Bklyn. Ent. Soc. B. 27: 170-172, 1932.

- Felt, Sci. Month 35: 59-62, 1932.
 Felt, Amer. Nurserym. 60(8): 5-6, '34.
 Felt, Bartlett Tree Res. Lab. Ed. B. 61, 1934, 12p.
 Felt & Bromley, J. Ec. Ent. 23: 137-142, 1930.
 Felt & Bromley, Nat. Shade Tree Conf. P. 6: 15-21, 1930.
 Felt & Bromley, J. Ec. Ent. 24: 157-162, 1931; 25: 39-46, 1932.
 Felt & Bromley, Gard. Chron. Amer. 36: 163-164, 1932.
 iFelt & Rankin, Ins. & Dis. of Ornamental Trees & Shrubs, 1932, 507p.
 iFleming et al, USDA C. 317, 1934, 7p.
 Gilliatt, Ent. Soc. Ont. R. 62: 17, 1932.
 Gorham et al, Ent. Soc. Ont. R. 62: 19, 1932.
 H.L.P., Garden Gossip 8(3): 26, 1933.
 biHamilton, Nat. Shade Tree Conf. P. 9: 59-73, 1933.
 biHerrick, N.Y. (C.) B. 515, 1931, 26p.
 Herrick & Griswold, N.Y. (C.) R. 44, Pt. 2: 47, 1931.
 iHoffmann, Mex. Univ. Nac. Inst. Biol. Anal. 2: 151-155, 1931.
 Houser, J. Ec. Ent. 24: 657-658, 1931.
 Houser, Ohio Wkly. PB 18(12), 1933; PB 18(13), 1933.
 Houser, Amer. Nurserym. 60(8): 9, 1934.
 Houser, Nat. Shade Tree Conf. P. 10: 4-11, 1934.
 iMcDaniel, Mich. Sp. B. 238, 1933, 37p.
 Mackie, Cal. Agr. Mo. B. 19: 547-556, 1930; B. 21: 480-481, 1932.
 Marlatt, USDA Ent. R. f. 1930: 50-54; R. f. 1931: 56-62; R. f. 1932: 7-8; R. f. 1933: 10-11.
 Middleton, Nat. Shade Tree Conf. P. 8: 23-31, 1932; P. 9, 73-85, 1933.
 Middleton, Parks and Recreation 16: 189-192, 1933.
 Mitchener, Ent. Soc. Ont. R. 62: 25-26, 1932.
 Mumford, Ill. R. 46: 160, 1933.
 iMusgrave, Purdue Agr. 27: 78, 84, 1933.
 Parker, Kans. Bien. R. 6: 96-97, 1932.
 Ross & Caesar, Ent. Soc. Ont. R. 62: 11-13, 1932.
 Stene & Horovitz, R.I. Agr. R. 6: 16-20, 1933.
 Stewart, Ent. Soc. Ont. R. 62: 29-30, 1932.
 Twinn, Ent. Soc. Ont. R. 64: 74-77, 1933; R. 65: 122-127, 1934.
 Van Leeuwen, USDA C. 237, 1932, 14p.
 iVan Yahres, School Tree Surgery, Lesson 5, 1930, 7p.
 Violette, Maine For. Com. R. 19: 70, 1932.
 Wakeland, Ida. News Letter 16(1-2): 3, 1932.
 Wallace, Ind. Dept. Conserv. R. 13: 50-51, 1931.
 Wallace, Ind. YB f. 1930: 481-482; YB f. 1931: 820-821.
 Wallace, Ind. St. Dept. Conserv. Div. Ent. R. f. 1931: 24-25, 1932.
 Weakley, Nat. Shade Tree Conf. P. 8: 99-102, 1932.
 N.H. For. Com. Bien. R. f. 1933/1934: 173-174.
Shannonomyia spp.
 nAlexander, Ann. Ent. Soc. Amer. 23: 733-734, 1930; 27: 65-66, 1934.
 nAlexander, J. N.Y. Ent. Soc. 39: 112-114, 1931.
 inAlexander, P. R. Dept. Agr. J. 16: 368-370, 1932.
Sharp-nosed leafhopper, see Draecula-cephala mollipes
***Sheep botfly, see Oestrus ovis L.**
Sheep dip, see Dips for sheep
Sheep insects
 Cooper, USDA FB 1710: 33, 1933.
 Marsh, Nat. Wool Grow. 21(3): 25-27, 1931.
 Mercer, Kans. Live Stock San. Comm. Bien. R. 14: 90-94, 1933.
 Willman, N.Y. (C.) Ext. B. 45: 42-43, 1932.
Sheep nostril fly, see Oestrus ovis
***Sheep scab mite, see Psoroptes ovis Her.**
***Sheep tick, see Melophagus ovinus (L.)**
Shelfordina, S. jarakae
 nHebard, P. Acad. Nat. Sci. Phila. 81: 46-50, 1929.
Shelter belt insects
 Cooley, Mont. B. 238: 13-14, 1930.

- Shenahweum**
 nHottes & Frison, Ill. Nat. Hist. Surv.
 B. 19(3): 267, 1931.
- Shermanalia**
 nCurran, Fam. & Genera of North Amer.
 Diptera: 470, 1934.
- Shoebutton spider**, *see* *Latrodectus mactans*
- Short-leaf pine insects**
 Mattoon, USDA FB 1671, 42p.
- ***Short-nosed cattle louse**, *see* *Haematopinus eurysternus* Nitz.
- Short winged chinch bug**, *see* *Blissus hirtus*
- ***Shot-hole borer**, *see* *Scolytus rugulosus*
- Shrub insects**
 Britton, Conn. B. 315: 497-498, 1930.
 Middleton, Nat. Shade Tree Conf. P.
 9: 73-85, 1933.
- Siamese grain beetle**, *see* *Lophocateres pusillus*
- Sibine stimulea** (Clem.) (Saddleback caterpillar)*
 Headstrom, Ent. News 44: 80, 1933.
 Riley & Johannsen, Med. Ent.: 177, '32.
 Watson & Berger, Fla. Ext. B. 67: 117-118, 1932.
- Sicilian mealybug parasite**, *see* *Leptomastix abnormis*
- Sicya snoviaria**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 32-33, 1934.
- Sidemia devastator** (Brace) (Glassy cutworm)*
 biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
 Strickland, Alberta Ext. B. 24: 36, '33.
- Sigaloessa insularis**
 nCurran, Amer. Mus. Nov. 456: 13, '31.
- Sigara halei**
 nHungerford, Bklyn. Ent. Soc. B. 29: 69, 1934.
- Sigmoidella**
 nHebard, P. Acad. Nat. Sci. Phila. 81: 55-56, 1929.
- Silaon rohweri**
 Williams, Hawaiian Ent. Soc. P. 7: 344, 1931.
- Silesis castaneus**
 nFleutiaux, Hawaiian Ent. Soc. P. 8: 486, 1934.
- ***Silk worm**, *see* *Bombyx mori* L.
- ***Silky ant**, *see* *Formica fusca subsericea*
- ***Silky cane weevil**, *see* *Metamasius sericeus* (Oliv.)
- Silky climbing cutworm**, *see* *Polia detracta*
- Silpha bituberosa**
 Dustan, Can. Dept. Agr. Ent. B. 32: 40, 1932.
- Silvanus gemellatus** Duv. (Square-necked grain beetle)*
 Back & Cotton, USDA FB 1260 rev.: 28-29, 1930.
- Silver crescent**, *see* *Charidryas nycteis*
- Silver leaf mite**, *see* *Phyllocoptes cornutus*
- Silver or rust mite**, *see* *Phyllocoptes olivorus*
- Silver-spotted skipper**, *see* *Epargyreus tityrus*
- ***Silverfish**, *see* *Lepisma saccharina* L.
- Silverspot fritillary**, *see* *Argynnis aphrodite*
- Silvestrina koebeli**
 nFelt, Pan-Pac. Ent. 8: 167-168, 1932.
- Simaethis pariana**, *see* *Hemerophila pariana*
- Simodactylus cinnamomeus**
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 239, 1933.
 Hawaiian Ent. Soc. P. 8: 215, 1933.
- Simodactylus pambertoni**
 nVan Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 431-432, 1931.
- Simodactylus tastui**
 Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 23, 1932.
- Simlocaria remota**
 nBrown, Can. Ent. 64: 8-9, 1932.
- Simuliidae**
 biBequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 849-858, 1930.
- biBradt**, P.R. J. Pub. Health & Trop. Med. 8: 69-81, 1932.
- iDrake & Tate**, Iowa Agr. YB f. 1934: 93-100.
- Dunn, Que. Soc. Prot. Pl. R. 25/26: 64-66, 1934.**
- iEdwards**, Bernice P. Bishop Mus. B. 98: 103-109, 1932.
- iFrost**, Nature Mag. 20: 267, 1932.
- biHearle**, B.C. Ent. Soc. P. 29: 5-19, '32.
- biHoffmann**, Mex. Univ. Inst. Biol. Anal. 2: 207-218, 1931.
- inKnowlton & Rowe**, Ann. Ent. Soc. Amer. 27: 580-584, 1934.

- iMetcalf, Ill. St. Acad. Sci. Trans. 23: 267-269, 1931.
- bMetcalf & Sanderson, N.Y. St. Mus. B. 289, 1931, 75p.
- biMetcalf & Sanderson, N.Y. St. Mus. C. 5: 1-9, 1931.
- iRiley & Johannsen, Med. Ent.: 291-298, 1932.
- biRitcher, Ent. News 42: 241-246, 1931.
- bTate, Ecology 13: 245, 1932.
- Weir, Can. Min. Agr. R. f. 1931/1932: 179.
- iAllied Vet. 5(3): 22, 1934.
- Simuliidae and disease**
- Dampf, Sci. News Letter 20: 243, 1931.
- Dampf, Sci. n.s. 77: 20-21, 1933.
- biMatheson, Med. Ent.: 299-309, 1932.
- Rawson, Sci. Month. 39: 502-503, '34.
- Simulium**
- bWu, Mich. Acad. Sci. Occ. Pap., 13: 543-599, 1931.
- Simulium—Food of fish**
- iPate, N.Y. St. Conserv. R. 21 sup.: 138, 146, 1931.
- Simulium adamsoni**
- nEdwards, Bernice P. Bishop Mus. B. 98: 109, 1932.
- Simulium arcticum**
- Hearle, B.C. Ent. Soc. P. 29: 16-17, 1932.
- Simulium avidum**
- niHoffman, Univ. Nac. Mex. Inst. Biol. Anal. 1: 51-53, 1930.
- Simulium brevicercum**
- niKnowlton & Rowe, Ann. Ent. Soc. Amer. 27: 583, 1934.
- Simulium buissoni gallinum**
- nEdwards, Bernice P. Bishop Mus. B. 98: 108, 1932.
- Simulium damnosum**
- Hoffman, Univ. Nac. Mex. Inst. Biol. Anal. 1: 59-62, 1930.
- biStrong & Shattuck, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 240-252, '30.
- Simulium decorum katmai**
- Hearle, B.C. Ent. Soc. P. 29: 13-14, '32.
- Simulium hirtipes**
- Twinn, Que. Soc. Prot. Pl. R. 25/26: 63, 1934.
- Simulium kamloopsi**
- biHearle, B.C. Ent. Soc. P. 29: 12-13, 1932.
- Simulium meridionale Riley (Turkey gnat)***
- Van Es & Olney, Neb. B. 290: 104, '34.
- Simulium mooseri**
- Silva, Science n.s. 73 (1901 sup.): 10, 12, 1931.
- Simulium mumfordi**
- nEdwards, Bernice P. Bishop Mus. B. 98: 109, 1932.
- Simulium nigrescens**
- inKnowlton & Rowe, Ann. Ent. Soc. Amer. 27: 583-584, 1934.
- Simulium ochraceum**
- Silva, Science 73 (1901 sup.): 10, 12, 1931.
- Simulium pictipes**
- biGambrell Ann. Ent. Soc. Amer. 26: 641-671, 1933.
- Jahn, Ohio St. Univ. Abst. Drs. Disser. 9: 135-143, 1932.
- Riley & Johannsen, Med. Ent.: 293-294, 1932.
- biSmart, Can. Ent. 66: 62-66, 1934.
- Simulium pseudohaematopotum**
- inHoffman, Univ. Nac. Mex. Inst. Biol. Anal. 1: 295-297, 1930.
- Simulium quadrivittatum**
- biBradt, P.R. J. Pub. Health & Trop. Med. 8: 69-81, 1932.
- Simulium spp.**
- iHoffman, Univ. Nac. Mex. Inst. Biol. Anal. 1: 293-306, 1930.
- Twinn, Ent. Soc. Ont. R. 65: 127, 1934.
- Sci. News Letter, 19: 329, 1931.
- Sci. News Letter, 24: 233, 1933.
- Simulium venustum (Black fly)**
- Hearle, B.C. Ent. Soc. P. 29: 17-18, '32.
- biMetcalf, N.Y. St. Mus. B. 289: 13-24, 1932.
- Twinn, Can. Ent. 65: 1-3, 1933.
- Twinn, Sci. Agr. 13: 404, 1933.
- Twinn, Ent. Soc. Ont. R. 64: 78, 1933.
- Twinn, Que. Soc. Prot. Pl. R. 25/26: 63, 1934.
- Simulium venustum and disease of ducks**
- biO'Roke, Univ. Mich. School For. & Conserv. B. 4, 1934, 44p.
- Simulium virgatum canadensis**
- biHearle, B.C. Ent. Soc. P. 29: 14-15, 1932.
- Simulium vittatum**
- biHearle, B.C. Ent. Soc. P. 29: 12, 1932.
- Knowlton, Utah B. 250: 47, 1934.

- Simulium vittatum* *Cont'd*
 iKnowlton & Rowe, Utah Leaf. 27, 1934, 2p.
 iWinn, Ent. Soc. Ont. R. 64: 78, 1933.
- Simyra henrici*
 iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 143-144, 1934.
- Sinella höfti*
 iDavis, P. Ent. Soc. Wash. 36: 269, '34.
 iFolsom, Hawaiian Ent. Soc. P. 8: 66, 1932.
- Sinoxylon conigerum*
 Dozier, P. Ent. Soc. Wash. 34: 11, '32.
 Pemberton, Hawaiian Ent. Soc. P. 8: 510, 1934.
- Sinoxylon japonicum*
 bClausen, USDA C. 168: 32, 1931.
- **Sinuate pear tree borer*, *see* *Agrilus sinuatus* (Oliv.)
- Sipha agropyronensis*
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 915-916, 1931.
- Sipha flava* (Yellow cane aphid)
 Leonard, P.R. Dept. Agr. J. 16: 139, 1932.
 Leonard, J. Ec. Ent. 26: 294, 1933.
- Sipha minuta*
 iTissot, Fla. Ent. 16: 23-24, 1932.
- Siphonurus* spp.
 Ide, Can. Ent. 62: 228, 1930.
 nMcDunnough, Can. Ent. 63: 89-91, 1931.
 McDunnough, Can. Ent. 64: 81, 1932.
- iTraver, Elisha Mitchell Sci. Soc. J. 47: 179-184, 1932.
- Siphonopteron signatum*, *speciosum*
 iTraver, Elisha Mitchell Sci. Soc. J. 47: 186-194, 1932.
- Siphonaptera*
 bBequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 999-1001, 1930.
 bJellison, Amer. Micros. Soc. Trans. 52(1): 43, 1933.
 biMatheson, Med. Ent.: 410-435, 1932.
 Metcalf & Flint, Fund. of Ins. Life: 328-330, 1932.
 biPickwell, Cal. St. Teach. Coll. Insects: 177-178, 1932.
 iRiley & Johannsen, Med. Ent.: 387-413, 1932.
 biShaftesbury, Elisha Mitchell Sci. Soc. J. 49: 247-263, 1934.
- Stanford, Utah Acad. Sci. P. 8: 153-154, 1931.
- iStewart, Can. Ent. 62: 175-180, 1930.
- bStewart, J. N.Y. Ent. Soc. 42: 253-262, 1934.
- Siphonophora millepeda*
 iLoomis, Smithsonian. Misc. Coll. 89(14): 8-9, 1934.
- Siphonophora valerii*
 nChamberlin, Pan-Pac. Ent. 9: 24, 1933.
- Siphosturmia*, *S. confusa*
 nReinhard, PUSNM 79 (11), 1931, 11p.
- Siphosturmiopsis* spp.
 nReinhard, Ent. News. 45: 15-19, 1934.
 nReinhard, PUSNM 79(11): 9-11, 1931.
- Siphunculata*
 Thompson, Can. Ent. 66: 279-281, '34.
- Sira jacobsoni*
 iFolsom, Hawaiian Ent. Soc. P. 8: 66-67, 1932.
- Sirex nitidus*
 Johnson, Psyche 37: 281-284, 1930.
- Siro americanus*
 iDavis, J. N.Y. Ent. Soc. 41: 49-53, 1933.
- Sisal insects*
 iWolcott, Ec. Ent. of West Indies: 307-310, 1933.
- Sisyridae*
 iOld, Mich. Acad. Sci. Pap. 17: 681-684, 1933.
- Sitodrepa panicea*, *see* *Stegobium paniceum*
- Sitona cylindricollis*
 Hyslop, J. Ec. Ent. 27: 562, 1934.
- Sitona hispidula* (F.) (Clover root curculio)*
 biBigger, J. Ec. Ent. 23: 334-341, 1930.
 biJewett, Ky. C. 42, 1934, 23p.
 bLarson & Hinman, J. Ec. Ent. 25: 972, 1932.
 biMarshall & Wilbur, J. Ec. Ent. 27: 807-814, 1934.
- Sitones*, *see* *Sitona*
- Sitophilus granarius* (L.) (Granary weevil)*
 iBack & Cotton, USDA FB 1260 rev. 2-3: 1930.
 Cartwright, S.C. R. 43: 67-69, 1930.
 Drake, Rev. de Agr. Cuba 13(1): 23, 1931.
 Gray, Que. Soc. Prot. Pl. R. 25/26: 47-48, 1934.

- Hodges, Nat. & Amer. Miller 62(3): 46, 1934.
- McDaniel, Mich. Quar. B. 16: 170, '34.
- biMex. Agr. & Fomento. Principales Plagas: 232, 1930.
- Mouromtseff, Elect. World, 102: 667, 1933.
- biPratt, Swain & Eldred, J. Ec. Ent. 26: 1033-1041, 1933.
- Ressler, Nat. & Amer. Miller 62(3): 44, 1934.
- Sanderson, Ins. Pests Farm, ed. 3: 478, 1931.
- Skinner & Coleman, Ind. Ext. R. 22: 51, 1933.
- Smith, J. Kans. Ent. Soc. 5: 81, 1932.
- bStirrett & Arnott, Ent. Soc. Ont. R. 63: 51-54, 1932.
- iStoutamire, Fla. Dept. Agr. B. 54 n.s.: 13-15, 1931.
- Twinn, Ent. Soc. Ont. R. 64: 79, 1933.
- Watson, Fla. Grow. 38(9): 26, 1930.
- iWatson, Fla. B. 232: 58-59, 1931.
- Sitophilus granarius**—Heat production
bFlanders, Ann. Ent. Soc. Amer. 26: 534-535, 1933.
- Sitophilus oryzae** (L.) (Rice weevil)*
Back, USDA FB 1029 rev.: 5-30, 1931.
iBack, La Hacienda, 27: 460-463, 1932.
iBack & Cotton, USDA FB 1260, rev.: 3, 1930.
- Brannen, Ark. B. 297: 47-48, 1934.
- iCartwright, S.C. B. 266, 1930, 28p.
- Cartwright, S.C. R. 46: 74-76, 1933.
- iCartwright, S.C. R. 47: 57-58, 1934.
- de Ong, Rice J. 36(12): 7-8, 1933.
- de Ong, J. Ec. Ent. 27: 1131-1132, '34.
- Fulton, N.C. R. 56: 35-36, 1933.
- Gonzalez, Rev. de Agr. Cuba 14(1): 75, 1932.
- Herrick & Griswold, N.Y. (C.) Ext. B. 202, rev.: 53-54, 1934.
- iMcDaniel, Mich. Quar. B. 16: 170, '34.
- bRoark, Pac. Sci. Cong. 5, P. 5: 3407, 1934.
- Sanderson, Ins. Pests Farm, ed. 3: 478, 1931.
- Schwardt, Ark. B. 257: 56-57, 1930.
- biShepard & Lindgren, J. Ec. Ent. 27: 842-845, 1934.
- Smith, J. Kans. Ent. Soc. 5: 81, 1932.
- Spencer, La. R. f. 1929/1931: 88-89.
- bStirrett & Arnott, Ent. Soc. Ont. R. 63: 51-54, 1932.
- bStracener, J. Ec. Ent. 27: 768-771, '34.
- Throckmorton, Country Gentlm. 95(6): 87, 1930.
- Twinn, Que. Soc. Prot. Pl. R. 25/26: 53-56, 1934.
- iWatson, Fla. B. 232: 58-59, 1931.
- Sitophilus rugicollis**
Swezey, Hawaiian Ent. Soc. P. 8: 28, 1932.
- Sitophilus spp.**
iMilord, Rev. de Agr. Cuba 12(4): 38-39, 1930.
- Sitophilus zeae**
Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 17.
- Sitotroga**
Flanders, J. Ec. Ent. 23: 1008-1009, 1930; 26: 510-511, 1933; 27: 1197, 1934.
- Sitotroga cerealella** (Oliv.) (Angoumois grain moth)*
Back, USDA FB 1029, rev.: 3-4, 1931.
iBack, La Hacienda, 27: 460-463, 1932.
iBack & Cotton, USDA FB 1260, rev.: 11, 1930.
- Cartwright, S.C. B. 266: 11, 1930.
- Doane, Common Pests: 334, 1931.
- Ellington, J. Ec. Ent. 23: 237-238, '30.
- bFlanders, Ann. Ent. Soc. Amer. 26: 529-535, 1933.
- Headlee, N.J. Ext. B. 112, 1933, 4p.
- Hinds et al, La. R. f. 1929-1931: 85.
- List & Davis, Col.-Wyo. Acad. Sci. J. 1(4): 61-62, 1932; J. 1(5): 81-82, '33.
- iMcDaniel, Mich. Quar. B. 16: 172, '34.
- iSanderson, Ins. Pests Farm ed. 3: 483-484, 1931.
- Simmons & Ellington, Ann. Ent. Soc. Amer. 25: 265-281, 1932.
- biSimmons & Ellington, USDA TB 351, 1933, 35p.
- bStracener, J. Ec. Ent. 27: 768-771, '34.
- Wallace et al, Ind. Dept. Conserv. R. 14: 55, 1932.
- Sitotroga cerealella**—Parasites
Fulton, N.C. R. 55: 42, 1932.
- biFulton, Ann. Ent. Soc. Amer. 26: 536-553, 1933.
- biNoble, Cal. Univ. Pub. Ent. 5(16): 311-354, 1932.

- *Six-spotted leaf hopper, *see* *Cicadula divisa* (Uhl.)
- *Six-spotted mite, *see* *Tetranychus sexmaculatus* Riley.
- Six-spotted thrips, *see* *Scolothrips sexmaculatus*
- Skippers, *see* *Prodesmometopa latipes*
- Slender meadow grasshopper, *see* *Conocephalus fasciatus vicinus*.
- Slender pigeon louse, *see* *Columbicola columbae*
- Slug caterpillars
iHerrick, Rur. N.Y. 89: 1179-1180, '30.
- Slugs
bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 47-48, 1931.
iCaesar, Ont. Dept. Agr. B. 359: 16-17, 1931.
Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 25-27, 1930.
Essig & Hoskins, Cal. Ext. C. 87: 98-99, 1934.
iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 62, 1934.
Huntington, Gard. Club Amer. B. Ser. 5(7): 114-117, 1934.
[List], Seed World 30(4): 38, 1931.
iMcDaniel, Mich. Sp. B. 214: 28-30, 1931.
Murphy, Gard. Club Amer. B. Ser. 4(9): 101, 1930.
Webster, Wash. Ext. B. 186: 4-5, 1934.
- Small black ant, *see* *Monomorium minimum*
- Small book-louse, *see* *Troctes divinatorius*
- Small cabinet beetle, *see* *Anthrenus verbasci*
- Small earth humble-bee, *see* *Bombus lucorum*
- Small eyed flour beetle, *see* *Palorus ratzeburgi*
- Small fruit insects
Baker, Wash. St. Hort. Soc. P. 26: 208-212, 1930.
iCrosby, et al, N.Y. (C.) Ext. B. 306: 1934, 28p.
Dean, Kans. St. Hort. Soc. Bien. R. 40: 136-153, 1930.
Doane, Common Pests: 187-196, 1931.
Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 68-71, 1930.
- Marlatt, USDA Ent. R. f. 1930: 27-28; R. f. 1932: 16-17; R. f. 1933: 20-21.
Mumford, Ill. R. 44: 145, 1931.
Sanderson, Ins. Pests Farm ed. 3: 454-455, 1931.
Sheaffer, Ind. Dept. Conserv. Div. Ent. Pub. 103: 28-36, 1930.
- Small green cabbage worm, *see* *Plutella maculipennis*
- Small tortoise-shell, *see* *Aglais milberti*
- *Smaller European elm bark beetle, *see* *Scolytus multistriatus* Marsh.
- *Smartweed borer, *see* *Pyrausta ainsliei*
- Smerinthus cerisyi
biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
- Smerinthus geminatus
Rummel, Bklyn. Ent. Soc. B. 28: 234, 1933.
- Smicromyrme thalia, thia, triguttata
nMickel, Ann. Ent. Soc. Amer. 26: 417-423, 1933.
- Smicronyx obtectus
Sweet, J. Ent. & Zool. 22: 97, 101, '30.
- Smicroplectrus disseptus
nWalley, Can. Ent. 65: 256-257, 1933.
- Sminthuridae
Edinger, J. Ent. & Zool. 25(1): 7, 1933.
- Sminthurides spp.
inMills, Collembola of Iowa: 90-96, 1934.
inFolsom, Hawaiian Ent. Soc. P. 8: 72-73, 1932.
- Sminthurinus aureus novus
nMills, Collembola of Iowa: 96, 1934.
- Sminthurus hortensis
Dustan, Can. Dept. Agr. Ent. B. 32: 30, 1932.
McDaniel, Mich. Sp. B. 214: 38-39, 1931.
- Sminthurus mammothia
Giovannoli, Bailey, Cave Life of Ky.: 233, 1933.
- Sminthurus medialis, obscurus
inMills, Collembola of Iowa: 103-105, 1934.
- Sminthurus viridis
bFolsom, J. Ec. Ent. 26: 935, 1933.
- Smodicum pacificum
nLinsley, Pan-Pac. Ent. 10: 107-108, 1934.
- *Smut beetle, *see* *Phalacroscopus politus* Melsh.
- Snake mite, *see* *Ophionyssus serpentina*

Snakes and insects

Boyer & Heinze, Ent. News 45: 88, '34.

Snapdragon insects

Thompson, J. Ec. Ent. 27: 549, 1934.

Snapdragon plume moth, see *Platyptilia marmarodactyla***Snapping locust, see *Trimerotropis suffusus*****Snellenius, S. philippinesis**

nMuesebeck, PUSNM 79(16): 9-10, '31.

Snout meal moth, see *Pyralis farinalis***Snowberry clear-wing, see *Haemorrhagia diffinis******Snowy tree cricket. see *Oecanthus niveus*****Social insects**

biDuncan, Cal. St. Teach. Coll. Insects: 206-229, 1932.

Howes, Nat. Hist. 33(1): 95-102, 1933.

iPowers, World of Insects: 29-37, 1931.

Von Schrenk, Amer. Wood-Preservers' Assoc. P. 30: 321-326, 1934.

Sod insects—Naphthalene

bStear, J. Ec. Ent. 26: 903-906, 1933.

Sod webworms, see *Crambus* spp.***Soft scale, see *Coccus hesperidum* L.****Sogata furcifer**

bClausen, USDA C. 168: 52, 1931.

Soil-infesting insects

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 48-52, 1931.

bBryson, J. Kans. Ent. Soc. 6: 81-90, 1933.

Burdette, N.J. R. 52: 227-228, 1931.

Christensen, Facts about Sugar 27(3): 137, 1932.

Christensen, Wis. B. 421: 68, 1932.

Fleury, Cal. Agr. Mo. B. 23: 269, 1934.

Headlee, N.J. R. 50: 193-197, 1929; R. 51: 175-176, 1930.

Hendrickson, Can. Ent. 63: 109-110, 1931.

Holloway, Facts about Sugar 27: 64-65, 1932.

biIngram, J. Ec. Ent. 24: 866-869, 1931.

Lipman, N.J. R. 52: 34, 1931.

Metcalf & Flint, Fund. of Ins. Life: 75-76, 1932.

Sein, Internat. Soc. Sugar Cane Tech. Cong. 4: B. 91 [P. Pt. 2], 1932, 2p.

bStone & Campbell, J. Ec. Ent. 26: 237-243, 1933.

Van Zwaluwenburg, Hawaiian Ent. Soc. P. 7: 394, 1931.

biWheeler, Demons of the Dust, 1930, 378p.

biVan Zwaluwenburg, Williams Handb. Insects... Hawaiian Sugar Cane Fields: 339-352, 1931.

Gard. Club Amer. B. Ser. 4(7): 91-92, 1930.

†Soil sterilization

Brown, Ohio Veg. Grow. Assoc. P. 15: 160-166, 1930.

Cory & Langford, Md. Ext. B. 68: 13, 1933.

De Parlier, U.S. Golf Assoc. Green Sec. B. 10: 173-174, 1931.

Essig & Hoskins, Cal. Ext. C. 87: 145-146, 1934.

Fleming, Mich. R. 15: 155-157, 1930.

bFleming & Baker, USDA TB 427: 7-8, 15-18, 1934.

iGlasgow, N.Y. St. Mus. C. 13, 1933, 12p.

iGlasgow & Gaines, N.Y. Dept. Agr. B. 240: 73-75, 1930.

Hammond, Sci. Agr. 16: 407-408, 1933.

Hutchison, Cal. R. f. 1931-32: 64, '33.

MacLeod & Rawlins, N.Y. (C.) B. 569: 13, 1933.

iMilbrath, Cal. Agr. Mo. B. 20: 673-681, 1931.

iNewhall & Chupp, N.Y. (C.) Ext. B. 217: 1931, 58p.

biTyler, Cal. C. 330: 20-27, 1933.

Soil sterilization—Electric

iCarney, Agr. Engin. 13: 95-96, 1932.

Kable, Agr. Engin. 15: 139, 1934.

Soil sterilization—Steam

bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 21-24, 1931.

Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 91-92, 1930.

McKee, Ont. Veg. Grow. Assoc. R. 27: 41, 1932.

Mumford, Ill. R. 45: 143, 1932.

Soldier beetle, see *Chauliognathus pennsylvanicus***Soldier fly, see *Stratiomyia melanostoma******Solenopsis geminata* (F.) (Fire ant)***

bBates, Fla. Ent. 17: 46-47, 1933.

Bruner, Rev. de Agr. Cuba 14(2): 51-52, 1932.

Solenopsis geminata (F.) Cont'd

- Campero, Rev. Unidas 48(8): 30-31, '32.
 Carter, Pineapple Quar. 1: 95, 1931.
 Clark, Tex. B. 435, 1931, 12p.
 biClark, Tex. Cit. 8(10): 7-9, 20-21, '32.
 biClark, Tex. C. 67, 43-45, 1933.
 iCreighton, P. Amer. Acad. Arts & Sci. 66: 53-65, 1930.
 iEssig, Tex. Cit. 7(1): 15, 1930.
 Phillips, Hawaiian Pineapple Prod. Assoc. B. 15: 12-17, 1934.
 bQuayle, Cal. B. 542: 64-65, 1932.
 Vandenberg, Guam R. f. 1928: 24-25, 1930.
 bWolcott, P.R. Dept. Agr. J. 17: 223-239, 1933.
 Wolff & Williams, Cal. Cult. 81: 461, 463, 1934.
- Solenopsis geminata diabolus**
 Davis et al, USDA TB 388: 46, 1933.
- Solenopsis (Euophthalma) globularia**
 iCreighton, P. Amer. Acad. Arts & Sci. 66: 108-114, 1930.
 Smith, Ent. News 41: 20, 1931.
- Solenopsis molesta (Say) (Thief ant)***
 Bentley & Rogers, Tenn. Pl. Dis. Control B. 40: 13, 1931.
 Rau, Acad. Sci. St. Louis Trans. 28: 214, 1934.
- Solenopsis spp.**
 iCreighton, P. Amer. Acad. Arts & Sci. 66: 39-151, 1930.
 Creighton, J. N.Y. Ent. Soc. 39: 602-603, 1931.
- Solenopsis xyloni**
 Barber, J. Ec. Ent. 26: 1174, 1933.
- Solierella (Silaon) mirificus**
 nPate, Ent. News 45: 243-244, 1934.
- Solitary bees, see Hylaeidae**
- Solpugida**
 biHilton, J. Ent. & Zool. 24: 52-53, 1932.
- Solubea insularis, linki**
 Barber & Bruner, P.R. Dept. Agr. J. 16: 252-253, 1932.
- Solubea pugnax (Rice stink bug)**
 Douglass, Rice J. 35: 12, 1932.
- Somatochlora calverti**
 binWilliamson & Gloyd, Mich. Univ. Mus. Zool. Occ. Pap. 262: 1933, 7p.
- Somatochlora ozarkensis**
 inBird, Mich. Univ. Mus. Zool. Occ. Pap. 261: 1933, 7p.

Somatochlora tenebrosa

- bMontgomery, Ind. Acad. Sci. P. 39: 313, 1930.
 Williamson, Mich. Univ. Zool. Occ. Pap. 240: 32, 1932.
- Sommatericola orientalis**
 inEwing, PUSNM 82(30): 13, 1933.
- Sonification, see Insects—Sonification**
- Sophiothrips, S. panamensis, squamosus**
 nHood, J. N.Y. Ent. Soc. 41: 425-429, 1933.
- Sophropompilus mohave**
 nBanks, Psyche 40: 6, 1933.
- Sorghum aphid, see Sipha flava.**
- Sorghum insects**
 Bryson, Kans. Bien. R. 6: 92, 1932.
 bBryson, J. Ec. Ent. 27: 827-832, 1934.
 Call, Kans. Bien. R. 5: 108-109, 1930.
 Gonzalez, Rev. de Agr. Cuba 14(1): 75, 1932.
 Reinhard, Tex. R. 47: 42-43, 1934.
- *Sorghum webworm, see Celama sorghiella (Riley)**
- Sorrel weevil, see Hypera rumicis**
- Sour cherry insects**
 Jones, Wash. St. Hort. Assoc. P. 25: 214-215, 1929.
- *Southern armyworm, see Prodenia eridania (Cram.)**
- Southern bee-killer, see Mallophora orcina**
- *Southern beet webworm, see Pachyzancla bipunctalis (F.)**
- *Southern cabbage worm, see Pieris protodice (Bdv. & Lec.)**
- *Southern corn rootworm, see Diabrotica duodecimpunctata (F.)**
- *Southern cornstalk borer, see Diatraea crambidoides (Grote)**
- Southern cowpea weevil, see Callosobruchus maculatus Fab.**
- Southern dry-wood termite, see Kaloterмес hubbardi**
- *Southern green stink bug, see Nezara viridula (L.)**
- *Southern house mosquito, see Culex quinquefasciatus Say**
- *Southern mole cricket, see Scapteriscus acletus R. & H.**
- *Southern pine beetle, see Dendroctonus frontalis Zimm.**
- *Southern pine sawyer, see Monochamus titillator (F.)**

- Southwestern army worm, *see* *Prodenia praefica*
- *Southwestern corn borer, *see* *Diatraea grandiosella* Dyar.
- *Southwestern pine beetle, *see* *Dendroctonus barberi* Hopk.
- Sowbugs**
- bBentley & Bartlett, Tenn. Pl. Dis. Central B. 57: 46-47, 1931.
- Chadwick, Flor. Rev. 70(1805): 65, '32.
- iEssig & Hoskins, Cal. Ext. C. 87: 99-100, 1934.
- iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 62, 1934.
- iHerrick, Rur. N.Y. 89, 1315, 1930.
- Jacobs, Flow. Grow. 20(5): 230, 1933.
- Nissley, Gard. Chron. Amer. 38: 114-115, 1934.
- Ralston, Flow. Grow. 19: 502, 1932.
- Swender, Flow. Grow. 19: 545, 1932.
- Can. Hort. Fr. & Truck ed. 55: 36, '32.
- Sowbugs—Poison bait**
- Kennedy, Ont. Agr. Coll. & Exp. Farm R. 57: 125, 1931.
- iMunro & Riddle, N.Dak. C. 42 rev.: 56, 1933.
- Soybean caterpillar, *see* *Anticarsia gemmatilis***
- Soybean insects**
- Flint, Amer. Soybean Assoc. P. 3: 83-85, 1930.
- Gonzalez, Rev. de Agr. Cuba 14(3): 19-22, 1932.
- Hinds, Assoc. South. Agr. Work. P. 31: 422-423, 1930.
- Hinds, J. Ec. Ent. 24: 833-835, 1931.
- Hopkins, La. Ext. C. 146: 61, 1931.
- Spaelotis clandestina*, *see* *Agrotis unicolor*
- Spaelotis haviellae*
- biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
- Spalangia cameroni**
- bWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 302, 1931.
- Spalangia sp.**
- Edwards, Guam R. f. 1930: 3, 23, 25, 1931.
- Vandenberg, Guam R. f. 1928: 29-30, 1930; R. f. 1929: 16, 1931; R. f. 1930/1932: 22, 1933.
- Spalirises humilis**
- nGoding, J. N.Y. Ent. Soc. 38: 89-90, '30.
- Spallanzania**
- Aldrich, P. Ent. Soc. Wash. 35: 168-170, 1933.
- Spangbergiella spp.**
- Lawson, J. Kans. Ent. Soc. 5: 116-121, 1932.
- *Spanish fly, *see* *Lytta vesicatoria* (L.)
- Sparganothis—Key**
- Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 84, 1930.
- Sparganothis pettitana** (Pettit's leaf-roller)
- iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 21, 1934.
- Sparganothis sulfureana**
- Phipps, Maine B. 356: 137, 1930.
- Sparrows & Momson's eye-worm**
- Illingworth, Hawaiian Ent. Soc. P. 7: 461, 1931.
- Spartocera batatas**
- Leonard, P.R. Dept. Agr. J. 16: 137, 1932.
- Spathidexia—North America**
- nReinhard, Bklyn. Ent. Soc. B. 29: 150-154, 1934.
- Spathimeigenia spp.**
- Aldrich, PUSNM 80(11), 1931, 10p.
- Species—Definition**
- iNoble, Nat. Hist. 30(1): 60-70, 1930.
- Torre-Bueno, Bklyn. Ent. Soc. B. 25: 229, 1930.
- Species and genus—Status**
- bJacot, Amer. Nat. 66: 346-364, 1932.
- Speocropia fennae**
- nBenjamin, Pan-Pac. Ent. 9: 3-4, 1933.
- Sphaeridiinae**
- Blackwelder, Pan-Pac. Ent. 8: 19-32, 1931.
- Hatch, Pan-Pac. Ent. 8: 78, 1931.
- Sphaeridium—Bibliography**
- Blackwelder, Pan-Pac. Ent. 8: 30, '31.
- Sphaerita sp.**
- biTravis, Iowa J. Sci. 6: 320-321, 1932.
- Sphaerocera galapagensis**
- nCurran, Cal. Acad. Sci. P. ser. 4, 21: 158, 1934.
- Sphaerocerus subsultans**
- Wilson, J. N.Y. Ent. Soc. 40: 90-91, 1932.
- Sphaeroderus canadensis lengi**
- nDarlington, Psyche 40: 62-64, 1933.
- Sphaeroderus multicarinatus**
- nDarlington, Psyche 38: 151-153, 1931.

- Sphaeroderus nitidicollis**
bSchaefer, Ohio J. Sci. 31: 406-415, '31.
- Sphaerophoria nigratarsi**
inFluke, Ann. Ent. Soc. Amer. 23: 143-144, 1930.
- Sphaerophoria robusta**
nCurran, BAMNH 61: 62-63, 1931.
- Sphaerophthalma occidentalis**, *see* *Dasy-mutilla occidentalis*
- Spharagemon collare**
bCriddle, P. World's Grain Exhib. & Conf., Can. 2: 491, 1933.
- Sphēcinae—America**
Fernald, Ann. Ent. Soc. Amer. 24: 439-450, 1931.
- Sphēcus speciosus**
Denton, Bklyn. Ent. Soc. B. 26: 35, 1931.
- Sphēcodes pieli**
nCockerell, Amer. Mus. Nov. 466: 13, 1931.
- Sphēcodes pulsatillae**
Cockerell, Ann. Ent. Soc. Amer. 26: 43, 1933.
- Sphēcoides spp.**
Anderson, B. C. Ent. Soc. P. 27: 13-14, 1930.
Hicks, Col.-Wyo. Acad. Sci. J. 1(5): 80, 1933.
iWheaton, St. Nich. 61: 532-533, 1934.
biWilliams, Bernice P. Bishop Mus. B. 98: 149-153, 1932.
- Sphēcomyia**
Curran, Amer. Mus. Nov. 519: 8, 1932.
- Sphēcophaga burra**
Cushman, P. Ent. Soc. Wash. 35: 10-11, 1933.
- Sphēgidae (Sand wasps)**
iStep, Bees, Wasps, Ants: 70-75, 1932.
- Sphenarium mexicanum**
Hebard, Trans. Amer. Ent. Soc. 58: 265, 1932.
- Sphenomyia**
Huckett, J. N.Y. Ent. Soc. 40: 46-49, 1932.
- Sphenophorus oblitus** *see* *Calendra oblita*
- Sphenophorus spp.**, *see* *Calendra spp.*
- Spheterista tetraplasandra**
Swezey, Hawaiian Ent. Soc. P. 8: 241, 1933.
- Sphex aberti**
bHicks, Can. Ent. 64: 145-151, 1932.
- Sphex arvensis floridensis**
Fernald, Ent. News 44: 236-238, 1933.
- Sphex breviceps**
Hicks, Can. Ent. 65: 49-54, 1933.
- Sphex ichneumonea**, *see* *Chlorion ichneumonea*
- Sphex nigricans, pictipennis, procerus**
Rau, Can. Ent. 66: 259, 1934.
- Sphex spp.**
inFernald, North Amer. Digger Wasps, 1934, 167p.
- Sphex urnaris (Threadwaisted wasp)**
Berry, Nature Mag. 23: 192, 1934.
- Sphex wrightii**
iHicks, Psyche 41: 150-157, 1934.
- Sphex xanthopterus**
Hicks, Can. Ent. 64: 193-198, 1932.
Hicks, Pan-Pac. Ent. 9: 49-52, 1933.
Hicks, So. Cal. Acad. Sci. B. 33: 39-41, 1934.
- Sphingidae**
Clark, New Eng. Zool. Club. P. 13: 43-46, 1932.
iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 16-17, 1934.
Herrick, Rur. N.Y. 91: 662, 1932.
iMcDaniel, Mich. Sp. B. 243: 47-50, 1933.
iThone, Sci. News Letter 21: 331, 1932.
- Sphinx chersis, drupiferarum**
McDaniel, Mich. Sp. B. 243: 49-50, 1933.
- Sphinx gordius**
McDaniel, Mich. Sp. B. 243: 48, 1933.
- Sphinx gordius campestris**
nMcDunnough, Can. Ent. 63: 73, 1931.
- Sphinx gordius coxei**
iCadbury, Trans. Amer. Ent. Soc. 57: 319-320, 1931.
- Sphinx lineata F. (White-lined sphinx)***
Bottel, Cal. Agr. Mo. B. 19: 379-380, 1930.
biHockenyoos, J. Ec. Ent. 25: 253-261, 1932.
- Sphinx pickwelli**, Cal. St. Teach. Coll. Insects: 232, 1933.
- Sphinx luscitiosa borealis**
nClark, New Eng. Zool. Club. P. 12: 77-78, 1931.
- Sphinx spp.**
iWeed, Insect Ways 37-47, 1930.

Spice-bush silk-moth, *see* *Callosamia promethea*

Spicebush swallowtail, *see* *Papilio troilus*

Spider-bite

Bogden, *Sci. Amer.* 146: 358, 1932.

Cornwell, *South. Med. & Surgery* 93: 885, 1931.

Peple, *Va. Med. Mo.* 56: 789-792, '30.

Riley & Johannsen, *Med. Ent.*: 31, 1932.

Spider mites, *see* *Tetranychus* spp.

Spider wasps, *see* *Psammocharidae*

Spiders

Baird, *Ohio J. Sci.* 32: 321-322, 1932.

iBaldwin, *Guide to Nature* 24: 39, 40, 1932.

biBanks, *Newport & Bird, Univ. Okla. Biol. Surv. Pub.* 4: 7-34, 1932.

iBrownell, *Amer. Photography* 28: 568-571, 1934.

Chamberlin & Gertsch, *P. Biol. Soc. Wash.* 43: 137-144, 1930.

iChamberlin & Ivie, *Univ. Utah B.* 23(4): 1933, 79p.

Clarke, *Sci. News Letter* 21: 228, 1932.

iCrosby & Bishop, *J. N.Y. Ent. Soc.* 39: 359-402, 1931.

bElliott, *Ohio J. Sci.* 30: 1-21, 1930.

iEmerton, *Nantucket Maria Mitchell Assoc.* 3(2): 161-174, 1930.

iEwing, *Nat. Geog.* 64: 163-194, 1933.

inGertsch, *Amer. Mus. Nov.* 636: 1933. 28p; *Nov.* 637: 1933. 14p.

biHilton, *J. Ent. & Zool.* 25: 21-31, 41-45, 1933.

iHubbell, *Ann. Ent. Soc. Amer.* 25: 502-504, 1932.

Idaquez, *La Hacienda* 25: 146, 1930.

iJenks, *Nature Mag.* 22: 279, 1933.

Petrunkévitch, *Conn. Acad. Arts & Sci. Trans.* 30: 159-355, 1930.

Riley & Johannsen, *Med. Ent.* 31: '32.

iReinhard, *Successful Farm.* 30 (12): 7, 36, 1932.

iThone, *Sci. News Letter*, 20: 31, 1931; 22: 171, 1932.

iWheaton, *St. Nich.* 61: 532-533, 1934.

iNature Mag. 20: 87-88, 1932.

Spiders—Fishing

iGudger, *Nat. Hist.* 31: 58-61, 1931.

iMeehan, *Nat. Hist.* 34: 538-540, 1934.

Spiders—Vertebrate food

biBhattacharya, *Sci. Month.* 39: 176-179, 1934.

Gudger, *Sci. Month.* 32: 422-433, 1931.

Spiders—Webs

iEllery, *Guide to Nature* 24: 38, 40, '32.

iSpencer, *Amer. For.* 36: 760-762, 1930.

Spiders and snakes

Guide to Nature, 27: 28-29, 1934.

Lit. Dig. 114: 37-38, Oct. 1, 1932.

Spilochalcis albifrons

bWilson, *Fla. Ent.* 17(1): 6, 1933.

Spilochalcis delumbis

Chamberlin, *P. Ent. Soc. Wash.* 35:

106-107, 1933.

Spilochalcis hirtifemora

bWilson, *Fla. Ent.* 17(1): 6, 1933.

Spilochalcis lanieri, rufa

Gahan, *Habana Univ. Mem. Soc. Poey* 8: 131-133, 1934.

Spilochalcis torvina

Keifer & Jones, *Cal. Agr. Mo. B.* 22: 388, 1933.

Spilocryptus pumilus

Essig & Michelbacher, *Cal. B.* 567: 68, 1933.

Spilogona

Huckett, *J. N.Y. Ent. Soc.* 40: 56-76, 1932.

Spilographa electa (Pepper maggot)

Burdette, *J. Ec. Ent.* 23: 260-265, 1930; 25: 344-345, 1932.

Burdette, *N.J. Dept. Ent. R. f.* 1929: 184-187, 1930; *R. f.* 1930: 169-170, 1931.

Burdette, *N.J. R.* 51: 169-170, 1930; *R.* 52: 197-198, 1931.

Burdette, *N.J. St. Hort. Soc. P. f.* 1930: 158-160, 1931; *P. f.* 1931: 156-157.

Headlee, *Amer. Cranb. Grow. Assoc. P.* 62: 18, 1931.

Headlee, *N.J. R.* 53-54: 40, 1933.

Woodward & Waller, *N.J. Agr. Exp. Sta.* 1880-1930: 245-246, 1932.

Spilographa setosa

Crane, *Cal. Agr. Mo. B.* 21: 217, 1932.

†*Spilonota ocellana* (D. & S.) (Eye-spotted budmoth)*

Brittain, *Que. Pom. & Fr. Grow. Soc. R.* 40: 59-61, 1933.

Brittain, *J. Agr. & Hort.* 37(8): 12, 26-30, 1934.

- †*Spilonota ocellana* (D. & S.) *Cont'd*
 Brittain, Conn. B. 344: 72, 1933.
 iCaesar, Ont. B. 356: 37-39, 1930.
 Collins & Nixon, N.Y. (Gen.) B. 583,
 1930. 32p.
 Gilliatt, Ent. Soc. Ont. R. 60: 8, 1930.
 Harman, J. Ec. Ent. 23: 184-187, 1930.
 iHarman, N.Y. (Gen.) B. 600: 1931,
 18p.; B. 609: 1932, 16p.
 Maltais, Que. Pom. & Fr. Grow. Soc.
 R. 40: 101, 1933.
 Marshall, Ent. Soc. Ont. R. 61: 83,
 1931.
 iNewcomer, USDA C. 270: 32, 55, 1933.
 Pack, J. Ec. Ent. 23: 737, 1930.
 Pack, Utah Acad. Sci. P. 7: 59, 1930.
 Pack, Utah B. 216: 13-14, 1930.
 iPettit & Hutson, Mich. CB 137: 21-22,
 1931.
 Pickett, N.S. Fr. Grow. Assoc. R. 70:
 52, 1933; R. 71: 39, 1934.
 iQuaintance & Siegler, USDA FB 1270
 rev.: 31-33, 1931; FB 1666: 69, 1931.
 iRoss, Can. Dept. Agr. B. 129: 41-42,
 1930.
 Twinn, Ent. Soc. Ont. R. 64: 70, 1933;
 R. 65: 119, 1934.
 Wakeland, Ida. St. Hort. Assoc. P. 36:
 159, 1931.
- Spilonota ocellana*—Parasites
 Petch, Que. Pom. & Fr. Grow. Soc. R.
 37: 32, 1930.
- Spilonota ocellana*—Tar oil spray
 Hartzell, Conn. Pom. Soc. P. 44: 94-
 106, 1934.
 Hartzell & Parrott, N.Y. (Gen.) B. 636:
 21-22, 1933.
- Spilopsyllus cuniculi*
 iSchwartz & Shook, USDA FB 1568
 rev.: 10, 1931.
- Spinach aphid*, *see* *Myzus persicae*
Spinach budworm, *see* *Hylemya ciliocrura*
Spinach carrion beetle, *see* *Silpha bitu-*
berosa
Spinach flea beetle, *see* *Disonycha xantho-*
melaena
Spinach insects
 iDustan, Can. Dept. Agr. B. 161 n.s.:
 39-40, 1932.
 Gould, J. Ec. Ent. 24: 484-486, 1931.
 Hawthorn, Tex. C. 66: 7, 1932.
 Smith, J. Ec. Ent. 26: 910-911, 1933.
- Underwood, N.Y. (C.) Ext. B. 282: 8,
 1934.
- **Spinach leaf miner*, *see* *Pegomyia hyo-*
scyami Panz.
- **Spined soldier bug*, *see* *Podisus maculi-*
ventris (Say)
- Spined stink bug*, *see* *Euschistus vario-*
larius
- Spiniger mustelinus*
 inHaviland-Brindley, Zoologica 7: 143,
 1931.
- Spinodarnoides typus*
 inFunkhouser, J. N.Y. Ent. Soc. 38: 413-
 414, 1930.
- Spinoliella puellae*
 nCockerell, Pan-Pac. Ent. 9: 25-26, '33.
- Spinose ear tick*, *see* *Ornithodoros megnini*
- Spinttherus* spp.
 Essig & Michelbacher, Cal. B. 567: 71-
 72, 1933.
 bFlanders, Ann. Ent. Soc. Amer. 28:
 438-444, 1934.
- Spinturnix*—Nomenclature
 Collins, Nat. Inst. Health B. 155: 743-
 765, 1931.
- Spiny citrus whitefly*, *see* *Aleurocanthus*
woglumi
- Spiny elm caterpillar*, *see* *Aglais antiopa*
- **Spiny oak worm*, *see* *Anisota stigma* F.
- Spirea aphid*, *see* *Aphis spiraeicola*
- Spittle insects*, *see* *Cercopidae*
- Spodoptera mauritia* (Bdv.) (*Nutgrass*
armyworm)*
 Agee, Hawaiian Sugar Pl. Assoc. P. 51:
 567-568, 1932.
 Pemberton, Assoc. Hawaiian Sugar
 Tech. R. 11: 48, 1932.
 Pemberton, Facts about Sugar 27: 484-
 485, 1932.
 iPemberton, Hawaiian Pl. Rec. 36: 7-
 12, 1932.
 Pemberton, Hawaiian Sugar Pl. Assoc.
 P. 52: 19-20, 1933; P. 53: 15-16, '34.
 Swezey, Mid-Pac. Mag. 42: 326, 1931.
 Swezey, Hawaiian Ent. Soc. P. 8: 2, '32.
 Swezey & Pemberton, Hawaiian Sugar
 Pl. Assoc. P. 51: 580-581, 1932.
 biWilliams, Handb. Insects... Hawai-
 ian Sugar Cane Fields: 136-140, '31.
- Spodoptera mauritia*—Fungous disease
 Van Zwaluwenburg, Hawaiian Ent.
 Soc. P. 7: 364, 1931.

Spodoptera mauritia—Parasites

biPemberton, Hawaiian Pl. Rec. 37: 168-174, 1933.

Rosa, Hawaiian Ent. Soc. P. 8: 226, 1933.

Spogostylum, *see* **Anthrax****Spongilla flies**, *see* **Sisyridae**

***Spotted asparagus beetle**, *see* **Crioceris duodecimpunctata**

***Spotted cucumber beetle**, *see* **Diabrotica duodecimpunctata**

***Spotted cutworm**, *see* **Graphiphora c-nigrum**

Spotted fever tick, *see* **Dermacentor venustus**

Spotted lady beetle, *see* **Coleomegilla fuscilabris**

Spotted legged cutworm, *see* **Agrotis vetusta**

Spotted tree borer, *see* **Synaphaeta guexi**

†Spray—**Calyx**

Crosby, N.Y. St. Hort. Soc. P. 77: 10, 1932.

Jones, Mo. St. Hort. Soc. P. f. 1930-1932: 83-84.

iList & Newton, Col. St. Ent. C. 60: 6, 1934.

Lockwood, Cal. Cult. 74: 623, 1930.
Quaintance & Siegler, USDA FB 1270 rev.: 98-99, 1931.

iRollins, Conn. Ext. C. 33: 4, 1931.
Neb. News & Feature Serv. 20: 32, '32.

†Spray—**Dormant**

iBorden, Cal. B. 579, 1934, 20p.

Browne, Ala. Ext. C. 138: 16, 1933.

Cory, Md. St. Hort. Soc. P. 36: 51-52, 1934.

Crosby, N.Y. St. Hort. Soc. P. 77: 11-12, 1932.

Crowley, Wash. B. 275: 65-66, 1932.

bCutright, Ohio B. 464: 33-37, 1930.

Fluke, Wis. Hort. 24: 125, 1933.

iGentner & Norris, Oreg. B. 321, 1933, 55p.

iHartzell, N.Y. (Gen.) C. 129, 1932, 8p.

Headlee, Peninsula Hort. Soc. Trans. 44: 59, 1930.

Headlee, N.J. St. Hort. Soc. P. f. 1930: 43-45, 1931.

Henley, Va. Ext. Div. News 14(6): 5-6, 1932.

Hurt, Va. St. Hort. Soc. P. 36: 99-104, 1931.

bHurt, Va. B. 293, 1933, 16p.

Hurt, Va. St. Hort. Soc. P. 38: 149-160, 1934.

bHutson, J. Ec. Ent. 25: 116-120, 1932.

Hutson, Mich. St. Hort. Soc. R. 62: 14, 1933.

biKelley, Ill. B. 348: 369-406, 1930.

Leckenby, Wash. St. Hort. Soc. P. 26: 185, 1930.

Lutken, S.C. Wkly. News Notes 19(24), 1930.

Moore, Mo. Bot. Gard. B. 19: 8, 1931; B. 22: 11, 1934.

Mumford, Ill. R. 46: 163, 1933.

iMusgrave, Purdue Agr. 27: 78, 1933.

Newcomer, Ida. St. Hort. Assoc. P. 35: 102-103, 1930.

Newton, Can. Exp. Farms. Seasonable Hints. Eastern & B.C. ed. 54: 11-12, 1931.

iNichols, Iowa Ext. B. 181: 4-5, 1932.
Quaintance & Siegler, USDA FB 1666: 4-5, 1931.

iRollins, Conn. Ext. C. 33: 2, 1931.

Rollins, Conn. Ext. B. 163: 3, 1932.

iSherwood, W.Va. Ext. C. 304: 8-10, '34.
Snapp, Tenn. St. Hort. Soc. R. 27: 26, 1931.

biSpuler et al., Wash. B. 247, 1931, 27p.

Talbert et al., Mo. C. 177: 1, 1934.

Talbert & Swartwout, Mo. B. 301: 3-4, 1931.

Tolles, Mich. St. Hort. Soc. R. 60: 141-144, 1931.

Wakeland, Ida. St. Hort. Assoc. P. 35: 32-34, 1930.

Walker, Ga.-Fla. Pecan Grow. Assoc. P. 27: 31-33, 35, 1933.

Walker, Nat. Pecan Grow. Assoc. P. 32: 12-14, 1933.

Webster, Wash. St. Hort. Assoc. P. 27: 19-20, 1931.

Wilcox & Baker, W. Wash. Hort. Assoc. P. 25: 11, 1934.

Spray apparatus, *see* **Spraying apparatus****†Spray calendars and programs**

Barss & Mote, Oreg. Ext. B. 431: 19-29, 1931.

Bear, Pa. St. Hort. Assoc. P. 71: 111-113, 1930.

Chase, Mich. St. Hort. Soc. R. 60: 105-107, 1931.

†*Spray calendars and programs Cont'd*

- Cole, Mass. Fr. Grow. Assoc. Inc. R. 37: 81-93, 1931.
 Cory, Md. St. Hort. Soc. P. 36: 52, '34.
 iCoulson & Brittain, J. Agr. & Hort. 37(12): 12-13, 1934.
 Cummings, Va. Com. Agr. Bien. R. 15: 146-147, 1930.
 Darrow, Conn. Pom. Soc. P. 39: 110-118, 1930.
 iDavis, Purdue Univ. B. 32(7): 46-51, 1932.
 iDutton et al, Mich. Sp. B. 174 rev., 1933, 47P.
 Eddy, Ky. St. Hort. Soc. Trans. 79: 134-140, 1934.
 Friend, Conn. Veg. Grow. Assoc. R. 20: 70, 1933.
 Garman, Conn. B. 349: 428-429, 1933.
 Haegele, Ida. St. Hort. Assoc. Conv. 39: 150-154, 1934.
 Hartzell, Md. St. Hort. Soc. P. 36: 16, 1934.
 Jones, Mo. St. Hort. Soc. P. f. 1930-1932: 83-85.
 Kelsall & Hockey, N.S. Fr. Grow. Assoc. R. 68-69: 32-33, 1931.
 Kendall, N.H. Ext. C. 107, 1930, 4P.
 Magill, Ky. St. Hort. Soc. Trans. 75: 58-60, 1930; 76: 78-90, 1931.
 Magness, N.Y. St. Hort. Soc. P. 77: 70-75, 1932.
 Platt, Conn. Pom. Soc. P. 40: 67-69, '31.
 Ruggles, Minn. Hort. 60: 82, 1932.
 Ruggles & Stakman, Minn. Hort. 61: 73, 1933; 62: 96, 1934.
 Spuler, Ida. St. Hort. Assoc. P. 36: 63-66, 71-72, 1931.
 iSpuler et al, Wash. B. 252: 25-29, '31.
 iStearns, Peninsula Hort. Soc. Trans. f. 1931: 123.
 iTeske, Va. St. Hort. Soc. P. 35: 152-157, 1930.
 Van Buren & Eastman, N.Y. Dept. Agr. C. 467: 13, 20, 25, 26, 34, 39, 42, 1933.
 Wakeland, Ida. St. Hort. Assoc. P. 35: 28, 1930; P. 36: 82-85, 1931; P. 39: 28-34, 1934.
 Wicks, Ida. St. Hort. Assoc. P. 35: 28, 1930; P. 36: 82-85, 1931; P. 37: 90-92, 1932; P. 39: 28-34, 1934.

Wicks, Ida. Dept. Agr. Bien. R. 7: 14-15, 1932.

†*Spray calendars and programs—Apples*

- iBarss et al, Oreg. Ext. B. 469, '34, 16P.
 iChristopher, R.I. Ext. C. 3, 1930, 4P.; C. 7, 1933, 2P.
 iCummings, Vt. Ext. C. 78, 1934, 4P.
 Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 58-63, 1930.
 Dutton, Mich. St. Hort. Soc. R. 61: 26-29, 1932.
 Eddy, Ky. St. Hort. Soc. Trans. 77: 85-87, 1932.
 Eddy et al, Ky. B. 353: 212-213, 1934.
 Essig & Hoskins, Cal. Ext. C. 87: 10-11, 1934.
 Headlee, Martin & Farley, N.J. C. 220, 1930, 7P.
 Headlee, N.J. C. 227, 1931, 7P.
 iHutcheson, Va. Ext. B. 114: 8-13, 1930.
 iKendall, N.H. Ext. C. 107, 1930, 4P.; C. 118, 1931, 4P.; C. 134, 1932, 4P.; C. 146, 1933, 6P.; C. 148, 1933, 2P.; C. 156, 1934, 6P.
 Morris & Mabee, Mont. Ext. C. 8, 1930, 4P.
 Newcomer, USDA C. 270: 70-71, 1933.
 iNichols, Iowa Ext. B. 181: 2-3, 1932.
 Pickett & Filinger, Kans. C. 169: 25-34, 1932.
 iQuaintance & Siegler, USDA FB 1270 rev.: 96-98, 1931; FB 1666: 71-72, 1931.
 Rollins, Conn. (Storrs) Ext. C. 45, 1932, 2P.; Ext. C. 49, 1933, 2P.
 iSkinner, Ind. Ext. B. 181, 1932, 8P.
 iSymons, Md. Ext. C. 98, 1933, 32P.; Ext. C. 103, 1934, 36P.
 iDel. Ext. Inf. Cd. 5, 1931, 1P.
 Ill. Hort. Soc. Trans. 65: 54-63, 1931.
 iInd. Ext. B. 181: 1-8, 1932.
 Md. Ext. C. 103, 1934. [4P.]
 N.H. Ext. C. 118, 1931, 40P.
 N.Y. (C.) Ext. Unnumbered leaflet, 1931.
 N.Y. St. Hort. Soc. P. 76: 309, 1931; P. 79: 351-353, 1934.
 Ohio B. 500: 6-7, 1932.
 Oreg. Ext. B. 458, 1933, 7P.
 Va. Dept. Agr. B. 278: 3-4, 1931.

Spray calendars and programs—Cantaloupes

Md. Ext. News 15(1): 3, 1930.

Spray calendars and programs—Cherries

Dietz, N.Y. St. Inst. Appl'd Agr. L.I.

Control. Pests of Tree Fruits: 35, '29

Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 66-67, 1930.

Eddy et al, Ky. B. 353: 230, 1934.

Headlee, N.J. C. 228, 1931, 4p.

Headlee, Martin & Farley, N.J. C. 221, 1930, 4p.

Headlee et al, N.J. C. 255, 1932, 4p.

McWhorter et al, Oreg. Ext. B. 470: 13-14, 1934.

Quaintance & Siegler, USDA FB 1666: 83, 1931.

N.Y. (C.) Ext. Unnumbered leaflet, '31.

N.Y. St. Hort. Soc. P. 76: 314-315, 1931; P. 79: 355-356, 1934.

Ohio B. 500: 13-14, 1932.

Spray calendars and programs—Citrus

Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(6): 64, 1931.

iKime, Cit. Ind. 12(6): 31, 34, 1931.

Linderman, Cit. Ind. 14(5): 6, 23, 1933.

Linderman, Fla. St. Hort. Soc. P. 46: 96, 1933.

Thomas, Cit. Ind. 15(6): 24, 1934.

Yothers et al, Fla. P. B. 464, 1934, 2p.

Spray calendars and programs—Currants and gooseberries

Darrow & Detwiler, USDA FB 1398 rev.: 25, 1933.

Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 69-70, 1930.

Eddy et al, Ky. B. 353: 239, 1934.

†Spray calendars and programs—Fruit

Brown, Ala. Ext. C. 138: 14-15, 1933.

iHolt, Ill. St. Hort. Soc. Trans. 66: 51-69, 1932.

Koiner, Va. Dept. Agr. B. 278: 3-10, '31.

Va. Dept. Agr. B. 267: 2-4, 1930.

Spray calendars and programs—Garden flowers

Gould, Minn. Hort. 60: 136-138, 1932.

Spray calendars and programs—Gooseberries, see Spray calendars and programs—Currants and gooseberries**Spray calendars and programs—Grapes**

Dean, Kans. St. Hort. Soc. Bien. R. 40: 153-155, 1930.

Dietz, N.Y. St. Inst. Appl'd Agr. L.I. Control. Pests of Tree Fruits: 36, '29.

Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 70-71, 1930.

Eddy et al, Ky. B. 353: 232, 1934.

Headlee, N.J. C. 256, 1932 2p.

Headlee et al, N.J. C. 224, 1930, 2p.

Headlee et al, N.J. Ext. B. 115, 1934, 2p.

Pickett & Williams, Midwest Fruitman 5(8): 6, 1932.

iDel. Inf. Cd. 7, 1931.

N.Y. (C.) Ext. Unnumbered leaflet, 1931.

N.Y. St. Hort. Soc. P. 76: 316-318, 1931; P. 79: 361-362, 1934.

Ohio B. 500: 15-16, 1932.

†Spray calendars and programs—Orchards

Cory, Md. St. Hort. Soc. P. 35: 91-92, 1933.

Dye, N.H. Hort. Soc. R. 19: 19-20, '30.

Eddy, Ky. St. Hort. Soc. Trans. f. 1933: 114-129.

Kelsall & Hockey, N.S. Fr. Grow. Assoc. R. 68-69: 30-32, 1931.

McKay, Miss. Ext. C. 43, 2d rev., 1934, 12p.

iParrott, N.Y. Hort. Soc. P. 77: 34-36, 1932.

Potter, N.H. Ext. B. 47: 60-61, 1934.

Rollins, Conn. (Storrs) Ext. B. 206, 1934, 8p.

Okla. Ext. C. 168 rev., 1930, 14p.

†Spray calendars and programs—Peaches

Christopher, R.I. Ext. C. 4, 1932.

Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 64-66, 1930.

Eddy, Ky. St. Hort. Soc. Trans. 77: 87, 1932.

Eddy et al, Ky. B. 353: 221, 1934.

Headlee et al, N.J. C. 222, 1930, 4p.; C. 252, 1932, 4p.; Ext. B. 116, 1934, 4p.

McWhorter et al, Oreg. Ext. B. 470: 13, 1934.

Quaintance & Siegler, USDA FB 1666: 80-82, 1931.

Rollins, Conn. (Storrs) Ext. C. 46, '32.

Rollins, Conn. (Storrs) Ext. C. 50, '33.

iSchaub, N.C. Ext. C. 185, 1931, 14p.

iSymons, Md. Ext. C. 98, 1933, 32p.

†**Spray calendars and programs** *Cont'd*

iSymons, Md. Ext. C. 103, 1934, 36p.

Del. Ext. Inf. Cd. 3, 1930.

iDel. Ext. Inf. Cd. 6, 1931.

N.Y. (C.) Ext. Unnumbered leaflet, 1931.

N.Y. St. Hort. Soc. P. 76: 312, 1931;
P. 79: 357, 1934.

Ohio B. 500: 12, 1932.

Va. Dept. Agr. B. 278: 4-5, 1931.

Spray calendars and programs—Pears

iBarss et al, Oreg. Ext. B. 469, 1934, 16p.

Dunlap et al, Ill. St. Hort. Soc. Trans.
64: 64, 1930.Essig & Hoskins, Cal. Ext. C. 87: 10-
11, 1934.Headlee et al, N.J. C. 223, 1930, 4p.;
Ext. B. 117, 1934, 3p.

Headlee et al., N.J. C. 253, 1932, 4p.

Newcomer, USDA C. 270: 71, 1933.

iNichols, Iowa Ext. B. 181: 2-3, 1932.
N.Y. (C.) Ext. Unnumbered leaflet,
1931.N.Y. St. Hort. Soc. P. 76: 310-311,
1931; P. 79: 354, 1934.

Ohio B. 500: 11, 1932.

Oreg. Ext. B. 458, 1933, 7p.

Spray calendars and programs—Pecans

Moznette, USDA FB 1654: 59, 1931.

**Spray calendars and programs—Plums,
prunes**Dunlap et al, Ill. St. Hort. Soc. Trans.
64: 67, 1930.

Headlee, N.J. C. 228, 1931, 4p.

Headlee, Martin & Farley, N.J. C. 221,
1930, 4p.

Headlee et al, N.J. C. 255, 1932, 4p.

McWhorter et al, Oreg. Ext. B. 470:
12, 1934.Quaintance & Siegler, USDA FB 1666:
84, 1931.N.Y. (C.) Ext. Unnumbered leaflet,
1931.N.Y. St. Hort. Soc. P. 76: 313, 1931;
P. 79: 358, 1934.

Ohio B. 500: 14, 1932.

Spray calendars and programs—Potato

Ellis, Conn. (Storrs) Ext. C. 39, 1931.

iGraney, N.Y. Dept. Agr. B. 276: 46-
47, 1933.Amer. Agr. Ann. Ref. & Outlook f.
1932: 166.**Spray calendars and programs—Prunes,
see Spray calendars and programs—
Plums, prunes****Spray calendars and programs—Quince**
N.Y. St. Hort. Soc. P. 79: 359, 1934.**Spray calendars and programs—Roses**

iHowitt, Ont. B. 353: 42-45, 1930.

**Spray calendars and programs—Straw-
berries**Dunlap et al, Ill. St. Hort. Soc. Trans.
64: 71, 1930.Pickett & Williams, Midwest Fruitman
5(8): 6, 1932.**Spray calendars and programs—Tomatoes**
Market Grow. J. 47: 555, 1930.**Spray calendars and programs—Truck
crops**

Ensign, Fla. Grow. 39(9): 28, 1931.

Watson & Weber, Fla. Grow. 40(9): 8,
1932.**Spray calendars and programs—Vege-
tables**iCoulson & Brittain, J. Agr. & Hort. 36:
198, 1933.iCoulson & Brittain, Maritime Farm.
38(18): 4, 1933.Mote & Thompson, Oreg. Ext. B. 463:
4-8, 1933.Ohio Farm. 171: 85, 93, 1933; 173: 133,
149, 1934.**Spray calendars and programs—Walnuts**
iBoyce, Diamond Walnut News 12(3):
14-16, 1930.Stanton, Diamond Walnut News 15(2):
5, 1933.**Spray circles, see Spray service****Spray equipment, see Spraying apparatus**†**Spray injury**Brannon, J. Ec. Ent. 26: 1112-1113,
1932.iBrittain, J. Agr. & Hort. 36: 195, 204-
205, 1933.Burkholder, Ind. St. Hort. Soc. Trans.
72: 128-131, 1933.Burrell, Amer. Soc. Hort. Sci. P. 30:
91-93, 1933.Burrell, N.H. Hort. Soc. R. 23: 47-49,
1933.biChapman et al, J. Ec. Ent. 27: 428-430,
1934.Dietz, Ohio Veg. Grow. Assoc. P. 15:
170-176, 1930.

- Dutton, Mich. Quar. B. 13: 55-56, '30.
Dutton, Mich. St. Hort. Soc. R. 60: 30-35, 1931; R. 64: 8-10, 1934.
Dutton, Amer. Pom. Soc. P. 49: 11-18, 1933.
Dutton, Ill. St. Hort. Soc. P. 67: 63-66, 159-166, 1934.
bEbeling, J. Ec. Ent. 25: 1007-1012, '32.
Gardner, Conn. Pom. Soc. P. 38: 112-115, 1929.
Hamilton, Conn. Pom. Soc. P. 44: 184-187, 1934.
Hedrick, N.Y. (Gen.) R. 50: 34-35, '31.
Hough, Va. St. Hort. Soc. P. 34: 143-147, 1929; R. 32: 214-221, 1930.
Hough, Md. Agr. Soc. R. 14: 214-221, 1930.
Howlett & May, Ohio Bi-Mo. B. 144: 67-70, 1930.
bKelley, Ill. B. 353: 581-599, 1930.
Mumford, Ill. R. 45: 141-142, 1932; R. 46: 160-161, 1933.
Parrott, N.Y. St. Hort. Soc. P. 77: 32, 1932.
iPlank, Cal. Agr. Mo. B. 22: 373-375, 1933.
iRamsower, Ohio Ext. B. 128: 26-29, '32.
Robinson, J. Ec. Ent. 25: 995-1001, 1932.
biRohrbaugh, Pl. Physiol. 9: 699, 1934.
Smith, J. Ec. Ent. 26: 730-731, 1933.
bStreeter & Pearce, Indus. & Engin. Chem. 23: 1140-1144, 1931.
Swartwout, Missouri St. Hort. Soc. P. f. 1933-1934: 79-85.
Waring, Maine St. Pom. Soc. R. f. 1931: 33-34.
Wilson, Ohio Veg. Grow. Assoc. P. 19: 33-39, 1934.
Young, Nat. Shade Tree Conf. P. 6: 83-91, 1930.
Young, Ohio Hort. Soc. P. 67: 23-24, 1934.
Cal. Agr. Mo. B. 20: 164, 1931.
Ohio B. 500: 32, 1932.
- Spray injury—Apples**
Beach, Ind. Hort. Soc. Trans. 69: 11-13, 1930.
iBurrell & Parris, J. Ec. Ent. 24: 711-716, 1931.
Cummings, Va. Com. Agr. Bien. R. 15: 150-151, 1930.
Cutright, J. Ec. Ent. 26: 995-996, 1933; 27: 417-420, 1934.
bDriggers, J. Ec. Ent. 26: 1137-1139, '33.
iDutton, Mich. Sp. B. 218, 1932, 68p.; B. 219, 1932, 38p.
iOverley, Ida. St. Hort. Assoc. P. 35: 115-121, 1930.
bOverley & Overholser, Wash. St. Hort. Assoc. P. 27: 23-30, 1931.
biRose et al, USDA Misc. Pub. 168: 46-47, 1933.
- Spray injury—Bordeaux mixture**
Hurt, Va. Fruit 21(1): 61-64, 1933.
- Spray injury—Calcium arsenate**
biBrannon, J. Agr. Res. 48: 447-451, '34.
- Spray injury—Citrus**
Hodgson, Tex. Cit. 7(1): 30, 1930.
Penny, Cal. Cult. 78: 563, 578, 1932.
- Spray injury—Fruit**
Fisher, USDA TB 245, 1931, 12p.
Hurt, Va. Fruit 2(1): 59-61, 1933.
- Spray injury—Lead arsenate**
Dutton, Midwest Fruitman 4(8): 4, '31.
Poole, N.C. R. 54: 78, 1931.
- Spray injury—Lime-sulphur**
Weldon, Pac. Rur. Press 119: 770, 1930.
- Spray injury—Nicotine tannate**
bDriggers, J. Ec. Ent. 26: 1137-1139, '33.
- Spray injury—Oil**
Ginsburg, N.J. R. 50: 173-176, 1929.
Ginsburg, N.J. Dept. Ent. R. f. 1929: 175-176, 1930.
bGinsburg, J. Agr. Res. 43: 469-474, '31.
Houser, Nat. Shade Tree Conf. P. 10: 21-22, 1934.
Robinson & Hatch, Oreg. St. Hort. Soc. R. 26: 81-84, 1934.
Spuler, Ida. St. Hort. Assoc. P. 36: 72, 1931.
- Spray injury—Peaches**
bAdams, Peninsula Hort. Soc. Trans. 46: 113-120, 1932.
Anderson, Ill. Hort. Soc. Trans. 65: 454-468, 1932.
Dutton, Mich. St. Hort. Soc. R. 60: 107-110, 1931.
Hurt, Va. Fruit 20(3): 10, 12, 1932.
Marcovitch, Tenn. R. 44: 45-46, 1931.
biMarcovitch & Stanley, J. Ec. Ent. 25: 213-217, 1932.
Young, Ohio St. Hort. Soc. P. 66: 21-23, 1933.

Spray injury—Pecans

bDemaree & Large, Southeast. Pecan Grow. Assoc. P. 28: 20-29, 1934.

Spray injury—Snap beans

biBrannon, J. Agr. Res. 48: 447-451, '34.

Spray injury—Walnuts

Miller, Oreg. St. Hort. Soc. R. 26: 112-116, 1934.

Spray injury and weather

Martin, N.J. Hort. Soc. P. f. 1931: 58-61, 1932.

Young, Cit. Leaves 14(7): 4, 1934.

Spray machinery, see Spraying apparatus**Spray materials, see also under name of major pests. Sprays, e.g. Carpocapsa pomonella—Sprays****§Spray materials**

Bailey, Vt. Dept. Agr. Ins. Control Div. C. 8, 1933, 4p.

Ballou & Lewis, Ohio Hort. Soc. P. 63: 80-102, 1930.

Barss & Mote, Oreg. Ext. B. 431: 13-18, 1931.

iBlodgett et al, Que. Pom. & Fr. Grow. Soc. R. 36: 26-28, 1929.

Bourne, Mass. B. 271: 254-256, 1930.

Bourne, Mass. B. 293: 28-30, 1933.

Dietz, Ohio Veg. Grow. Assoc. P. 15: 170-176, 1930.

Flint, Amer. Pom. Soc. P. 49: 25-34, 1933.

Hartzell, Md. St. Hort. Soc. P. 36: 9-12, 1934.

Hedrick, N.Y. (Gen.) R. 50: 33-34, '30.

iHerrick, N.Y. Dept. Agr. B. 240: 63-64, 1930.

Hurt, Va. St. Hort. Soc. P. 34: 158-159, 1929.

iHutcheson, Va. Ext. B. 114: 16-23, '30.

Ingerson, Penn. St. Hort. Assoc. P. 73: 44, 1932.

Kelsall et al, Que. Pom. & Fr. Grow. Soc. R. 36: 26-28, 1929.

bMarshall, Que. Soc. Prot. Pl. R. 25/26: 132-133, 1934.

iNichols, Iowa Ext. B. 181: 10-12, 1932.

Pickett & Filing, Kans. C. 169: 21, 1932.

Pierstorff & Parks, Ohio Ext. Serv. Pl. Dis. & Ins. Notes 1(1): 2-4, 1930.

iSherwood, W.Va. Ext. C. 305: 35-41, 1934.

Street, Ky. St. Hort. Soc. Trans. 77: 90-96, 1932.

Tissot & Thompson, Fla. Ent. 14: 9-12, 1930.

Van Leeuwen, USDA C. 237: 5-6, '32.

Young, Ohio Wkly. PB 16(46), 1932.

Spray materials—Aluminum sulphate lime sulphur

Can. Hort. Fr. ed. 57: 125, 1934.

Spray materials—Ammoniacal copper carbonate

Talbert & Swartwout, Mo. B. 301: 14-15, 1931.

Spray materials—Anabasine sulphate

iGarman, Conn. B. 349: 429-432, 1933.

iGarman, J. Ec. Ent. 27: 361-364, 1934.

Spray materials—Arsenic

Dutton, Mich. Quar. B. 13: 55-56, '30.

Petteway, Food Field Report. 1(19): 13, 1933.

Canner 79(8): 12, 1934.

Spray materials—Arsenic—Legislation

Fla. Grow. 41(4): 7, 1933.

Spray materials—Arsenic—Water soluble

Young, Ohio B. 448, 1930, 22p.

Spray materials—Arsenicals

iAmos, Purdue Agr. 26: 142, 1932.

biDaniels, Col. B. 400: 5-34, 1933.

Yonge, Fla. St. Pl. Bd. Mo. B. 15: 93-97, 1931.

Spray materials—Arsenicals—Correctives

Moznette, Assoc. South. Agr. Work. P. 31: 421, 1930.

Spray materials—Arsenicals and Bordeaux mixture

Moznette, Ga.-Fla. Pecan Grow. Assoc. P. 24: 28-34, 1930.

Spray materials—Barium fluosilicate

iBoyce, Diamond Walnut News 13(3): 6-7, 1931.

Braucher, Diamond Walnut News 16(2): 4, 8, 1934.

Newcomer, Better Fruit 25(9): 7, 1931.

iNewcomer, Northw. Fr. Grow. 3(3): 9, 1931.

iPlank, Cal. Agr. Mo. B. 22: 377, 1933.

iRegan, Cal. Spray-Chem. Corp. R. 7, 1931. 30p.

Spray materials—Barium fluosilicate and fish oil

Newcomer & Carter, Ida. St. Hort. Soc. P. 36: 163-165, 1931.

Spray materials—Barium fluosilicate and mineral oil

iBoyce, Diamond Walnut News 15(3): 8-9, 1933; 16(3): 12-13, 1934.

†Spray materials—Bordeaux mixture

Bonde, Maine B. 377: 342-348, 1934.

Brown, Ala. Ext. C. 138: 18, 1933.

Claiborne, Man. of Gard.: 161, 1932.

biDaniels, Col. B. 400: 5-34, 1933.

iDeLong, J. Ec. Ent. 27: 525-533, 1934.

Demaree & Large, Southeast. Pecan

Grow. Assoc. P. 28: 20-29, 1934.

iDenniston & Hodgkiss, Penn. St. Col.

C. 137: 12-16, 1931.

Drake, Iowa R. f. 1932: 59.

Dunlap et al, Ill. St. Hort. Soc. Trans.

64: 74-76, 1930.

iDustan, Can. Dept. Agr. Ent. Br. C.

88, 1933, 4p.

Gilbert & Popenoe, USDA FB 1371

rev.: 39-40, 1934.

iGraney, N.Y. Dept. Agr. B. 276: 46-47,

1933.

iHerrick, N.Y. Dept. Agr. B. 240: 66-

69, 1930.

Hockenyos & Irwin, Phytopath. 22: 32,

1932.

iHutcheson, Va. Ext. B. 131: 17-18, '33.

Jehle, Md. Ext. News 17(9): 4, 1933.

Kelsall & Hockey, N.S. Fr. Grow. As-

soc. R. 68-69: 25-26, 1931.

MacLeod, N.H. Hort. Soc. R. 22: 79-

80, 1932.

Mayo, Fla. Dept. Agr. Quar. B. 40(1):

27-41, 1930.

Miller, Oreg. St. Hort. Soc. R. 22: 154-

156, 1930.

iPieper, Burlison & Flint, Ill. B. 344:

272-275, 1930.

Porter, Tenn. Pl. Dis. Control B. 58:

17-18, 1931.

Quayle, Cal. Cit. 18: 166, 184, 1933.

Robinson, Oreg. B. 259: 14-18, 1930.

Rose, Minn. Ext. Fold. 45, 1933, 4p.

iSchneiderhan, W.Va. C. 60, 1932, 8p.

Sherwood, W.Va. Ext. C. 304: 22-24,

1934.

Talbert & Swartwout, Mo. B. 301:

11-21, 1931.

Truffaut, Chem. Ind. 34: 43-44, 1934.

iWilson & Runnels, Ohio Bi-Mo. B. 166:

21-28, 1934.

iWilson & Runnels, Ohio Bi-Mo. B. 19:

170, 175-179, 1934.

Woglum, Cal. Fr. Grow. Exch. B. 9:

16-17, 1932.

Va. Dept. Agr. B. 267: 5-6, 1930; B.

278, 6-7, 1931.

Spray materials—Bordeaux mixture—Effect on plants

Martin & Clark, N.J. R. 50: 249-255,

1929.

bWilson & Runnels, Phytopath. 21: 729-

738, 1931.

Wilson & Runnels, Ohio B. 516: 44-45,

1933.

Spray materials—Bordeaux mixture and fumigation injury

iButler & Jenkins, Phytopath. 20: 419-

429, 1930.

Quayle, Cal. Cit. 18: 166, 184, 1933.

Spray materials—Bordeaux mixture and lime—Abrasive

iNixon, Agr. Engin. 14: 335-336, 1933.

Spray materials—Bordeaux mixture and oil sprays

iWilson & Runnels, Ohio Bi-Mo. B. 19:

170, 179-186, 1934.

Spray materials—Bordeaux oil emulsion

Blanton & Spruijt, J. Ec. Ent. 27: 845-

849, 1934.

Chapman, Conn. Pom. Soc. P. 44: 89-

93, 1934.

Garman, Conn. Pom. Soc. P. 44, 85-86,

1934.

iGlasgow & Cook, N.Y. Dept. Agr. &

Markets B. 240: 76-83, 1930.

Parrott, N.Y. St. Hort. Soc. P. 77: 25-

27, 1932.

Pierce, Hoosier Hort. 16: 43, 1934.

Rhoads & De Busk, Fla. B. 229: 17-21,

1931.

Ruggles, Minn. Hort. 59: 72, 1931.

Talbert, Amer. Fr. Grow. Mag. 51(8):

8, 1931.

Spray materials—Bordeaux mixture vs. lime sulphur

Talbert & Swartwout, Mo. B. 301:

13-14, 1931.

Spray materials—Burgundy mixture

Butler, N.H. TB 56, 1933. 26p.

Spray materials—Calcium arsenate

Delaplane, Purdue Agr. 28: 52, 1934.

- Spray materials—Calcium arsenate** *Cont'd*
 Friend, N.H. Hort. Soc. R. Meet. Manchester Dec. 8, 1932: 66-67.
 Kelsall & Hockey, N.S. Fr. Grow. Assoc. R. 68/69: 26-28, 1931.
 bPercival & Potter, N.H. TB 49, 1932. 15p.
 Porter, Amer. Pom. Soc. P. 49: 38-39, 1933.
 Rodriguez, Rev. Agr. P. R. 25: 149, 154, 1930.
 Webster, J. Ec. Ent. 27: 413-414, 1934.
- Spray materials—Calcium arsenate and Bordeaux mixture**
 Hough, Md. St. Hort. Soc. P. 36: 18-19, 1933.
 Wessels, N.H. Hort. Soc. R. 23: 95, '33.
- Spray materials—Calcium arsenate, lime**
 iHerrick, N.Y. Dept. Agr. & Markets B. 240: 64-65, 1930.
- Spray materials—Calcium arsenate, soap**
 Webster, J. Ec. Ent. 27: 416, 1934.
- Spray materials—Calcium sulphide**
 Dutton, Mich. St. Hort. Soc. R. 60: 109-110, 1931.
 Hurt, Va. St. Hort. Soc. P. 34: 162-167, 1929.
 Hurt & Sniederhan, Better Fruit 24(11): 9, 1930.
 iHutcheson, Va. Ext. B. 131: 21, 1933.
 Kelsall & Hockey, N.S. Fr. Grow. Assoc. R. 68/69: 26-28, 1931.
- Spray materials—Carbon disulphide**
 bMarcovitch, J. Ec. Ent. 27: 782-784, 1934.
- Spray materials—Coal tar derivatives**
 Hartzell, Farm. Res. 1(3): 5, 9, 1934.
- Spray materials—Combination sprays**
 iOverley, Ida. St. Hort. Assoc. P. 35: 114-121, 1930.
 Spuler, Ida. St. Hort. Assoc. P. 36: 64-66, 1931.
 iWebster et al, Ida. St. Hort. Assoc. P. 35: 104-114, 1930.
- Spray materials—Contact**
 Fleming, USDA C. 280, 1933. 4p.
- Spray materials—Cooperative buying**
 Franklin, Neb. St. Bd. Agr. R. f. 1933: 582-584.
- Spray materials—Copper**
 Mumford, Ill. R. 45: 141, 1932.
- Spray materials—Corrosive sublimate, see Spray materials—Mercuric chloride**
- Spray materials—Cresylic acid**
 Burrell, N.H. Hort. Soc. R. 23: 36-37, 1933.
 Farley, N.J. Agr. 12(4): 15-16, 1930.
 iHutcheson, Va. Ext. B. 131: 22-23, '33.
- Spray materials—Cryolite**
 Braucher, Diamond Walnut News 16(2): 4, 8, 1934.
 Gill, Ga. St. Ent. B. 77: 42, 1933.
 Hutchison, Cal. R. f. 1932/1934: 62-63.
 iMcKenzie, Cal. Agr. Mo. B. 22: 412, 1933.
 Porter, P. Amer. Pom. Soc. 49: 39, '33.
 Woglum, Cal. Fr. Grow. Exch. B. 11: 24, 1934.
- Spray materials—Cryolite and barium fluosilicate**
 Boyce & Maxwell, Diamond Walnut News 15(1): 6-7, 1933.
 iNewcomer, Northw. Fr. Grow. 3(3): 9, 1931.
- Spray materials—Cryolite and fish oil**
 iBoyce, Diamond Walnut News 14(3): 15-17, 1932.
 Newcomer & Carter, Ida. St. Hort. Assoc. P. 36: 163-165, 1931.
- Spray materials—Cryolite and mineral oil**
 iBoyce, Diamond Walnut News 15(3): 8-9, 1933; 16(3): 12-13, 1934.
- Spray materials—Derris**
 Caffrey, Md. Agr. Soc. R. 19: 275, '34.
 Hamilton, N.J. C. 334: 4, 1934.
 Richardson, J. Ec. Ent. 26: 914-915, 995, 1933.
- Spray materials—Derris, nicotine and Paris green**
 biRichardson, J. Agr. Res. 49: 359-373, 1934.
- Spray materials—Derrisol and penetrol combination**
 Mumford, Ill. R. 45: 143-144, 1932.
- Spray materials—Deterioration**
 Amer. Agr. 126: 436, 1930.
- Spray materials—Effect on albino rats**
 buTalbert & Taylor, Missouri Res. B. 183, 1933. 19 p.
- Spray materials—Effect on plant tissue**
 Runnels & Wilson, Ohio Bi-Mo. B. 19: 104-109, 1934.

- Spray materials—Electrical conductor**
Elect. West. 70: 87, 1933.
- Spray materials—Flour-paste**
iMcGregor, USDA FB 831 rev.: 10, '34.
- Spray materials—Fluorine compounds**
iList & Newton, Col. St. Ent. C. 60: 5, 1934.
Marcovitch, Tenn. R. 43: 35-36, 1930.
bMarshall, Que. Soc. Prot. Pl. R. 25/26: 132, 1934.
Newcomer, USDA C. 270: 67, 1933.
- Spray materials—Furfural**
Flor. Rev. 65(1676): 37, 1930.
- Spray materials—Gypsum and lime**
iHerrick, N.Y. Dept. Agr. & Markets B. 240: 63-64, 1930.
- Spray materials—Iron sulphate**
DeBusk, Fla. Grow. 42(4): 12, 1934.
Kelsall & Hockey, N.S. Fr. Grow. Assoc. R. 68-69: 29-30, 1931.
Can Hort. Fr. & Truck. ed 53: 45, 1930.
- Spray materials—"Kalite," see Spray materials—Sodium fluosilicate**
- Spray materials—Kerosene emulsion**
Cory, Md. Ext. News 16(7): 4, 1932.
Phillips & Dicke, North Virginian 4(2): 47, 1932.
Richardson, P. Ent. Soc. Wash. 36: 49, 1934.
- †Spray materials—Lead arsenate**
iAmos, Purdue Agr. 26: 142, 1933.
Barss & Mote, Oreg. Ext. B. 431: 14, 1931.
Boyce & Marshall, Diamond Walnut News 15(1): 6-7, 1933.
Braucher, Diamond Walnut News 16(2): 4, 8, 1934.
Britton, Conn. B. 349: 446, 1933.
Cleveland, Ohio St. Hort. Soc. P. 65: 139-143, 1932.
Crumb, W. Wash. Hort. Assoc. P. 25: 13-15, 1934.
Diehl, Wash. St. Hort. Assoc. P. 25: 69-70, 1929.
Dunlap et al., Ill. St. Hort. Soc. Trans. 64: 79-80, 1930.
Fleming, Nat. Greenkeep. 6(6): 6-7, '32.
iFleming et al., USDA C. 317: 5-6, '34.
Friend, Conn. Veg. Grow. Assoc. R. 20: 66-67, 1933.
Garman, Conn. Pom. Soc. P. 44: 86-87, 1934.
Gilmer, Mo. St. Hort. Soc. P. f. 1930-1932: 86-91.
iHallock, Nassau Co. Farm & Home Bur. News 19(6): 6, 1933.
Hamilton, J. Ec. Ent. 23: 238-251, '30.
Hanson, W. Wash. Hort. Assoc. P. 25: 46-47, 1934.
Hough, Va. St. Hort. Soc. P. 36: 134-138, 1931.
iHutcheson, Va. Ext. B. 131: 21, 1933.
Hutchison, Cal. R. f. 1932-1934: 60.
iList & Newton, Col. Ent. C. 60: 3-4, '34.
Longfield-Smith, Fla. Dept. Agr. Chem. Div. R. f. 1933/1934: 6-70.
Markley & Sando, Pl. Physiol. 8: 475-478, 1933.
Marlatt, USDA Ent. R. f. 1930: 52-53.
Moser, Tenn. St. Hort. Soc. P. 25: 87-89, 1930.
Nelson & Mottern, Cit. Ind. 12(10): 24-25, 1931.
Newcomer, USDA FB 1326 rev.: 13-14, 1931.
Newcomer, USDA C. 270: 67, 1933.
bPercival & Potter, N.H. TB 49, 1932, 15p.
Porter, P. Amer. Pom. Soc. 49: 37-38, 1933.
Rasmussen, N.H. Hort. Soc. R. 20: 139-142, 1931.
Ruggles & Stakman, Minn. Hort. 60: 82, 1932.
Sherman, Mich. St. Hort. Soc. R. 60: 48-50, 1931.
Snapp, USDA FB 1557 rev.: 39-40, '31.
Spuler, Ida. St. Hort. Assoc. P. 36: 64-66, 1931.
iSpuler & Dean, Wash. St. Hort. Assoc. P. 25: 57-88, 1929.
biWalden, Conn. B. 349: 426-427, 1933.
biWebster & Marshall, Wash. B. 293, 1934, 31p.
iWebster et al, Ida. St. Hort. Assoc. P. 35: 105-107, 1930.
Ohio B. 500: 25-26, 1932.
- Spray materials—Lead arsenate—Effect on chickens**
Christie, Ont. Agr. Coll. & Exp. Farm. R. 60: 85-86, 1935.
- Spray materials—Lead arsenate—Penetration into sod**
Hamilton, N.J. R. 51: 186-192, 1930.

- Spray materials—Lead arsenate—Soaps**
Ginsburg, J. Agr. Res. 46: 179-182, '33.
- †**Spray materials—Lead arsenate—Substitutes**
Cutright, Ohio Hort. Soc. P. 67: 100-103, 1934.
Flint, Iowa St. Hort. Soc. Trans. 68: 136-139, 1933.
Hough, Md. St. Hort. Soc. P. 37: 18-20, 1934.
Marcovitch, Tenn. R. 43: 35-36, 1930.
bMarshall, Que. Soc. Prot. Pl. R. 25/26: 130-132, 1934.
Marshall & Groves, Wash. St. Hort. Assoc. P. 29: 39-60, 1933.
Mumford, Ill. R. 43: 139, 1930.
Nettles, S.C. R. 46: 81, 1933.
Sherman, Mich. St. Hort. Soc. R. 62: 50-54, 1933.
- Spray materials—Lead arsenate—Substitutes—Calcium arsenate**
bRichardson, Iowa St. Hort. Soc. Trans. 68: 79-81, 1933.
- Spray materials—Lead arsenate—Substitutes—Fluorine compounds**
Newcomer & Carter, Ida. St. Hort. Assoc. P. 36: 161-165, 1931
- Spray materials—Lead arsenate and Bordeaux mixture**
Friend, Conn. Veg. Grow. Assoc. R. 20: 67, 1933.
Moznette, Amer. Nut. J. 31: 8, 1929.
- Spray materials—Lead arsenate, fish oil**
Friend & West, J. Ec. Ent. 27: 334-336, 1934.
Slate, Conn. B. 347: 276, 1933.
Spuler et al., Wash. St. Hort. Assoc. P. 25: 63-64, 1929.
iWebster et al, Ida. St. Hort. Assoc. P. 35: 111-112, 1930.
Webster & Marshall, Wash. B. 293: 9-17, 1934.
- Spray materials—Lead arsenate and lead**
Wakeman, Mich. St. Hort. Assoc. R. 62: 5-6, 1933.
- Spray materials—Lead arsenate and lime mixture**
Madlinger, Tenn. St. Hort. Soc. P. 28: 76, 1932.
Snapp, Md. St. Hort. Soc. R. 32: 203-206, 1930.
- †**Spray materials—Lead arsenate and mineral oil**
Murray, Wash. St. Hort. Assoc. P. 27: 52-56, 1931.
Robinson, J. Ec. Ent. 25: 995-1001, 1932.
Spuler et al, Wash. St. Hort. Assoc. P. 25: 60-63, 1929.
Webster, J. Ec. Ent. 27: 412, 1934.
iWebster, Spuler & Dean, Ida St. Hort. Assoc. P. 35: 107-111, 1930.
- Spray materials—Lead arsenate, oil dusts**
iMumford, Ill. R. 45: 138-139, 1932.
- Spray materials—Lead arsenate, soap**
Ginsburg, J. Agr. Res. 46: 179-182, '33.
- Spray materials—Lead arsenate, sulphur**
Petch, Que. Pom. & Fr. Grow. Soc. R. 39: 13-14, 1932.
- †**Spray materials—Lime**
Dutton, Can. Hort. Fr. & Truck ed. 56: 178, 1933.
Dutton, Mich. St. Hort. Soc. R. 63: 5-7, 1934.
Hoppert, Neb. St. Hort. Soc. P. 61: 95-96, 1930.
Lewis, Ohio Wkly. P. B. 16(13), 1931.
Quaintance & Siegler, USDA FB 1666: 28, 1931.
Stearns, Neb. St. Hort. Soc. R. 61: 95-96, 1930.
Tilford, Amer. Potato J. 8: 145-150, 1931.
Van Leeuwen, USDA C. 237: 8, 1932.
- Spray materials—Lime nicotine mixture**
iLavoie, Que. Dept. Agr. R. f. 1931/1932: 153-154.
- †**Spray materials—Lime sulphur**
Anderson et al, J. Ec. Ent. 23: 466-469, 1930.
Ballou & Lewis, Ohio Hort. Soc. P. 67: 67-68, 72-73, 1934.
Barss & Mote, Oreg. Ext. B. 431: 13-16, 1931.
Bullis, J. Ec. Ent. 25: 922-928, 1932.
Christensen, Wis. B. 428: 100, 1934.
Cory, Md. St. Hort. Soc. R. 32: 206-213, 1930.
Dunlap et al, Ill. St. Hort. Trans. 64: 78-79, 1930.
Dutton, Mich. Sp. B. 203: 15-17, 1930.
Dutton, Amer. Pom. Soc. P. 49: 15-16, 1933.

- Grove, Va. St. Hort. Soc. P. 38: 116-126, 1934.
- Hedrick, N.Y. (Gen.) R. 50: 56-58, '31.
- iHutcheson, Va. Ext. B. 131: 16-17, 20, 1933.
- Kellsall, Conn. Pom. Soc. P. 39: 91-104, 1930.
- bLilly & Fluke, J. Ec. Ent. 27: 1142-1147, 1934.
- biLiming, Phytopath. 23: 153-171, 1933.
- List, Col. B. 411, 1934, 14p.
- List & Daniels, Science n.s. 79: 79, '34.
- McDaniel, Mich. C. B. 133: 17, 1930.
- iMcGregor, USDA FB 831 rev.: 10, '34.
- McWhorter et al., Oreg. Ext. B. 470: 6-7, 1934.
- Newcomer, Oreg. St. Hort. Soc. R. 23: 54, 1932.
- Newcomer, USDA C. 270: 68, 1933.
- Parrott, N.Y. St. Hort. Soc. P. 77: 26-27, 1932.
- Rasmussen, N.H. Hort. Soc. R. 20: 139-142, 1931.
- Rhoades & DeBusk, Fla. B. 229: 21-23, 1931.
- Robinson, Oreg. B. 259: 7-10, 1930.
- Sandsten, Col. R. 47: 18, 1934.
- Sherwood, W.Va. Ext. C. 304: 16-21, 1934.
- Snapp, USDA FB 1557 rev.: 22-23, 40, 1931.
- Trent, Okla. Ext. C. 168 rev.: 7-8, '30.
- Urbahns, Cal. Agr. Mo. B. 20: 172-176, 1931.
- Walker, Ga.-Fla. Pecan Grow. Assoc. P. 26: 42, 1932.
- Weber, Fla. P. B. 453, 1933, 4p.
- biWebster, J. Ec. Ent. 26: 1016-1017, '33.
- Wilcox & Baker, W. Wash. Hort. Assoc. P. 25: 11-12, 1934.
- bYates, J. Ec. Ent. 26: 989-994, 1933.
- Yothers & Miller, Fla. St. Hort. Soc. P. 46: 48-52, 1933.
- Spray materials—Lime sulphur—Dry**
- Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 79, 1930.
- Dutton, Mich. Sp. B. 203: 12-15, 1930.
- iHutcheson, Va. Ext. B. 131: 18-21, '33.
- Talbert & Swartwout, Mo. B. 301: 6-10, 1931.
- Va. Dept. Agr. B. 267: 6-7, 1930; B. 278: 7-8, 1931.
- Spray materials—Lime sulphur—Substitutes**
- Hough, Md. St. Hort. Soc. R. 32: 217-218, 1930.
- Spray materials—Lime sulphur and iron sulphate**
- Dutton, Mich. Sp. B. 203: 17-18, 1930.
- Kellsall, Ent. Soc. Ont. R. 65: 73-76, 1934.
- Kellsall & Hockey, N.S. Fr. Grow. Assoc. R. 67: 176-179, 1930.
- Miller, Yothers & Bassett, Fla. St. Hort. Soc. P. 46: 52-56, 1933.
- N.S. Fr. Grow. Assoc. R. 66: 56-57, '30.
- Spray materials—Lime sulphur and petroleum oil**
- Popenoe, Fla. Grow. 20: 175, 1933.
- Spray materials—Lime sulphur vs. Bordeaux mixture**
- Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 35, 1930.
- Spray materials—Magnesium arsenate**
- iBailey, Vt. Dept. Agr. Insect Control Div. C. 9: 2-4, 1933.
- Britton, Conn. Veg. Grow. Assoc. R. 18: 40, 1931.
- Friend, N.H. Hort. Soc. R. Meet. Manchester, Dec. 8, 1932: 77-79.
- Lutken, S.C. Wkly. News Notes 19: 52, 1931.
- Spray materials—Magnesium arsenate, barium fluosilicate, hydrated lime**
- Turner & Friend, Conn. B. 349: 455, 1933.
- Spray materials—Manganese arsenate**
- de Ong, Pac. Rur. Press 127: 153, 1934.
- Newcomer, Big "Y" B. 10(4): 6, 1930.
- Webster, J. Ec. Ent. 27: 413, 1934.
- Amer. Fr. Grow. Mag. 53(4): 10, 1933.
- Spray materials—Mercuric chloride**
- Dustan, Ont. Veg. Grow. Assoc. R. 25: 51-52, 1930.
- Spray materials—Nicotine**
- iBurdette & Headlee, N.J. C. 311: 18-29, 1934.
- Ginsburg, N.J. Dept. Ent. R. f. 1930: 168-169, 1931.
- Hough, J. Ec. Ent. 27: 1102-1103, '34.
- iHutcheson, Va. Ext. B. 131: 22, 1933.
- Newcomer, USDA C. 270: 70, 1933.
- Pickett, N.S. Fr. Grow. Assoc. R. 67: 179-182, 1930.

Spray materials—Nicotine *Cont'd*

- bQuayle, Cal. B. 542: 26, 1932.
 iRuggles, Minn. Hort. 62: 153, 1934.
 Whitcomb, Market Grow. J. 46: 212-213, 1930.
Spray materials—Nicotine—Supplements
 biHuckett, N.Y. (Gen.) TB 210, 1933, 20p.
Spray materials—Nicotine, lime sulphur
 Hutson, Mich. St. Hort. Soc. R. 62: 74-78, 1933.
Spray materials—Nicotine and Penetrol
 Mumford, Ill. R. 45: 140, 143-144, '32.
Spray materials—Nicotine and pyrethrum
 Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 244, 1932.
Spray materials—Nicotine, sodium oleate
 Filmer, J. Ec. Ent. 23: 165-169, 1930.
Spray materials—Nicotine bentonite
 iPop. Mech. 62: 513, 1934.
Spray materials—Nicotine oleate
 Tweedale, Flor. Exch. 81(5): 16, 1933.
Spray materials—Nicotine soap
 Chadwick, Flor. Rev. 70(1805): 63-64, 1933.
†Spray materials—Nicotine sulphate
 Delaplane, Purdue Agr. 28: 52, 1934.
 Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 80, 1930.
 iDustan, Can. Dept. Agr. B. n.s. 161: 14-15, 1932.
 Flint & Larrimer, USDA FB 1498 rev.: 16, 1934.
 Friend, N.H. Hort. Soc. R. Meet. Manchester, Dec. 8, 1932: 68-69.
 iGarman, Conn. B. 349: 429-432, 1933.
 Garman, Conn. Pom. Soc. P. 44: 84-85, 1934.
 iGarman, J. Ec. Ent. 27: 361-364, 1934.
 Gilbert & Popenoe, USDA FB 1371 rev.: 41, 1934.
 Hamilton, Glad. Rev. 9: 318, 1932.
 Kimball, Diamond Walnut News 16(3): 15, 1934.
 McDaniel, Mich. C. B. 133: 17, 1930.
 McDaniel, J. Ec. Ent. 26: 835-836, '33.
 iMiddleton & Smith, USDA C. 305: 3-5, 1934.
 iMunro & Riddle, N.Dak. C. 42 rev.: 12, 1933.
 Newcomer, Ida. St. Hort. Assoc. P. 35: 38, 1930.

- Porter, Amer. Pom. Soc. P. 49: 39-40, '33.
 Snapp, USDA FB 1557 rev.: 40, 1931.
 Sudds, Rur. N.Y. 89: 445, 1930.
 Walker, Ga.-Fla. Pecan Grow. Assoc. P. 26: 39-43, 1932.

Spray materials—Nicotine sulphate and Bordeaux mixture

- Huckett, N.Y. (Gen.) C. 128: 6, 1932.
 Moznette, Southeast Pecan Grow. Assoc. P. 28: 55-61, 1934.

Spray materials—Nicotine sulphate and hydrated lime

- Jungerman, Cal. Cult. 76: 624, 1931.

Spray materials—Nicotine sulphate and lime sulphur

- iParrott & Glasgow, N.Y. (Gen.) B. 582, 1930. 32p.

Spray materials—Nicotine sulphate and mineral oil

- bHutson, J. Ec. Ent. 27: 366-367, 1934.
 Boyce & Maxwell, Diamond Walnut News 15(1): 7, 1933.

Sprayer materials—Nicotine sulphate

- Spuler & Dean, Wash. St. Hort. Assoc. P. 25: 64-65, 1929.
 Wakeland & Haegele, Ida St. Hort. Assoc. P. 36: 80-81, 1931.

bWebster & Marshall, J. Ec. Ent. 27: 873-878, 1934.**iWebster et al, Ida S. Hort. Assoc. P. 35: 112-114, 1930.****Spray materials—Nicotine sulphate and Penetrol**

- bFriend & West, J. Ec. Ent. 27: 334-336, 1934.

bHutson, J. Ec. Ent. 27: 366-367, 1934.**bPierson & Gillespie, J. Ec. Ent. 27: 341, 1934.****Spray materials—Nicotine sulphate, soap**

- Friend, Conn. Veg. Grow. Assoc. R. 20: 69-70, 1933.

Madlinger, Tenn. St. Hort. Soc. P. 28: 76, 1932.**bNash, J. Ec. Ent. 27: 339, 1934.****Petch, Que. Pom. & Fr. Grow. Soc. R. 39: 43-46, 1932.****Spray materials—Nicotine tannate**

- Boyce & Maxwell, Diamond Walnut News 15(1): 7, 1933.

bDriggers, J. Ec. Ent. 26: 1137-1139, '33.**bDriggers & Pepper, J. Ec. Ent. 27: 432-440, 1934.****Headlee, N.J. Agr. 15(2): 4-5, 1933.**

Spray materials—Nicotine vapor

iSmith et al, J. Ec. Ent. 27: 1192-1195, 1934.

†Spray materials—Oil

Anderson et al, J. Ec. Ent. 23: 466-469, 1930.

Barss & Mote, Oreg. Ext. B. 431: 16-17, 1931.

iBorden, Cal. B. 579, 1934, 20p.

Bourne, Mass. B. 271: 258, 1931; B. 280: 213, 216-217, 1932; B. 293: 31, 1933; B. 305: 32, 1934.

Christensen, Wis. B. 421: 82-84, 1932.

Cleveland, J. Ec. Ent. 24: 349-355, '31.

Cleveland, Ohio St. Hort. Soc. P. 65: 139-143, 1932.

Cory, Md. St. Hort. Soc. R. 32: 208-213, 1930.

iDawsey & Haas, J. Agr. Res. 46: 41-49, 1933.

iDeJuhasz, Zahn & Schweitzer, Penn. Engin. Exp. Sta. B. 40, 1932, 93p.

DeOng, Chemicals 34(6): 33-34, 1930.

DeOng, Cal. Agr. Mo. B. 20: 176-180, 1931.

iDeOng, J. Ec. Ent. 24: 978-985, 1931.

bEbeling, J. Ec. Ent. 25: 1007-1012, '32.

Essig, Hist. of Ent.: 421-423, 1931.

iEssig & Hoskins, Cal. Ext. C. 87: 118-120, 1934.

Farrar, Ind. Hort. Soc. Trans. f. 1930: 76-80.

Farrar, Tenn. St. Hort. Soc. P. 26: 84-89, 1931.

Farrar, Wis. Hort. 21: 217-218, 1931.

Farrar, Amer. Pom. Soc. P. 49: 19-25, 1933.

Farrar, Ill. St. Hort. Soc. Trans. 67: 168-174, 1934.

Ficht, J. Ec. Ent. 26: 752-753, 1933.

Filinger, Kans. St. Hort. Soc. Bien R. 41: 121-123, 1932.

Flint & Mohr, Ill. B. 359: 377-378, '30.

iFrench, Agr. Engin. 15: 324-326, 329, 1934.

Garman, Conn. Pom. Soc. P. 38: 50-54, 1930; P. 44: 82-84, 1934.

iGimingham, Pac. Sci. Cong. 5, P. 5: 3427-3428, 1934.

Ginsburg, N.J. C. 291, 1933, 4p.

iGranovsky, Wis. B. 420: 13-15, 1931.

Green & Neller, Wash. B. 245: 23, '30.

iHartzell, N.Y. (Gen.) C. 129, 1932, 8p.

Headlee, N.J. St. Hort. Soc. P. f. 1930: 58-59, 1931.

Herman, Can. Hort. Fr. & Truck ed. 54: 103, 1931.

Herman, Can. Dom. Exp. Farms Seas.

Hints, East. ed. 51: 12-13, 1931.

Houser & Dietz, Nat. Shade Tree Conf. P. 6: 74-83, 1930.

iHutcheson, Va. Ext. B. 114: 23-26, 1930.

Iddings, Ida. B. 179: 29, 1931; B. 192: 31, 1932; B. 197: 36, 1933.

Jardine, Oreg. R. f. 1928/1930: 68, 127.

Kelley, Mich. St. Hort. Soc. R. 60: 124, 1931.

iKnight & Cleveland, J. Ec. Ent. 27: 269-289, 1934.

iList & Newton, Col. St. Ent. C. 60: 4-5, 1934.

McWhorter et al, Oreg. Ext. B. 470: 10-11, 1934.

Markley & Sando, Pl. Physiol. 8: 475-478, 1933.

Marshall, Que. Soc. Prot. Pl. R. 25/26: 127-128, 1934.

Neiswander & Vogel, Ohio St. Hort. Soc. P. 65: 128-134, 1932.

Newcomer, Oreg. St. Hort. Soc. R. 23: 54-65, 1932.

Newcomer, USDA C. 270: 68-69, 1933.

bNewcomer, Pac. Sci. Cong. 5, P. 5: 3419-3422, 1934.

Newcomer & Spuler, J. Ec. Ent. 23: 289-290, 1930.

Nickels, Pecan Grow. 1(6): 3, 8, 1933.

Overholser & Overley, Wash. B. 305: 44, 1934.

Overley & Overholser, Wash. B. 275: 42-43, 1932.

iOverley & Spuler, Amer. Soc. Hort. Sci. P. 26: 343-347, 1930.

Parrott, N.Y. St. Hort. Soc. P. 76: 22-31, 1931; P. 77: 27-28, 1932.

Parrott & Glasgow, N.Y. (Gen.) B. 582: 32, 1930.

Penny, J. Ec. Ent. 25: 1002-1007, '32.

Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 12.

iQuaintance & Newcomer, USDA FB 1676, 1931. 18p.

bQuayle, Cal. B. 542: 79-85, 1932.

†**Spray materials—Oil Cont'd**

- Quayle & Ebeling, Cal. B. 583, 1934.
22p.
- Richardson, Iowa Hort. Soc. Trans. 66:
10, 1931.
- Robinson, Oreg. B. 259: 18-21, 1930.
- Robinson & Childs, Oreg. C. 107, 1933,
8p.
- Ross, Ent. Soc. Ont. R. 62: 49-57,
1932.
- Ruhmann, B.C. Dept. Agr. R. 24: 140-
141, 1930.
- Sanderson, Ins. Pests Farm ed. 3: 43-
47, 1931.
- Sherwood, W.Va. Ext. C. 304: 25-29,
1934.
- Smith, J. Ec. Ent. 25: 988-990, 1932.
- Smith, Annual Cit. Inst. Edinburg
Coll. (Tex.) P. 2: 22-29, 1933.
- Snapp, Tenn. St. Hort. Soc. R. 27: 15,
1931.
- Snapp, USDA FB 1557 rev.: 20-22, 40,
1931.
- Spuler, Wash. B. 245: 31-34, 1930.
- biSpuler et al, Wash. B. 247, 1931, 27p.;
B. 252, 1931, 39p.
- Swartwout, Amer. Soc. Hort. Sci. P.
28: 663-666, 1932.
- Talbert & Swartwout, Missouri B.
301: 3, 1931.
- Tissot & Thompson, Fla. Ent. 14: 9,
1930.
- Tolles, Mich. St. Hort. Soc. R. 60: 141-
144, 1931.
- Trent, Okla. Ext. C. 168 rev.: 9-10, '30.
- Turner, Conn. Pom. Soc. P. 38: 49-50,
1929; P. 39: 79-80, 1930.
- Wakeland, Ida. B. 170: 21, 1930.
- Wakeland, Ida. News Letter 14(2): 1, 4,
1930.
- Wakeland, Ida. St. Hort. Assoc. P. 35:
30-38, 1930.
- Webster, Wash. B. 275: 31-32, 1932.
- Webster, Wash. B. 305: 34, 1934.
- Webster & Marshall, Wash. B. 291: 30-
32, 1934.
- Webster et al, Wash. Ext. B. 185: 2-4,
1934.
- Wilson & Runnels, Ohio B. 516: 44-45,
1933.
- Woglum, Cal. Fr. Grow. Exch. B. 9:
14-22, 1932; B. 11: 21-22, 1934.

Woodworth, Mich. St. Hort. Soc. R.
60: 124-125, 1931.

Young, Phytopath. 22: 31, 1932.

Spray materials—Oil—Classification

- Moulton, Cal. Agr. Mo. B. 20: 417, '31.
- Woglum, Cal. Fr. Grow. Exch. B. 9:
24-25, 1932.
- Woglum, Cal. Fr. Grow. Exch. B. 11:
28-29, 1934.

Spray materials—Oil—Creosote oil

- Hartzell, Farm. Res. 1(3): 5, 9, 1934.
- Stanley et al, J. Ec. Ent. 27: 785-788,
1934.

**Spray materials—Oil—Depositing quali-
ties**

- iSmith, J. Ec. Ent. 24: 985-991, 1931.

Spray materials—Oil—Fish oil.

- iList & Newton, Col. St. Ent. C. 60: 5,
1934.
- bMarshall, Que. Soc. Prot. Pl. R. 25/26:
128-129, 1934.
- Spuler, Ida. St. Hort. Assoc. P. 36: 69,
1931.

- Webster, J. Ec. Ent. 27: 412, 1934.
- Wash. Ext. B. 185: 3-4, 1934.

Spray materials—Oil—Fly sprays

- Soap 5(8): 105, 107, 1930.

Spray materials—Oil—Heaviness

- Smith, Cit. Leaves 11(11): 18, 20-24,
1931.

Spray materials—Oil—Hydrocarbons

- biKelley, Ill. B. 348: 369-408, 1930.

Spray materials—Oil—Kerosene emulsion

- Hammer, J. Ec. Ent. 27: 367-369, '34.
- iMcGregor, USDA FB 831 rev.: 10, '34.

Spray materials—Oil—Larvicides

- Ginsburg & Forman, N. J. R. 51: 128-
130, 1930.

Spray materials—Oil—Lime sulphur

- iBorden, Cal. C. 324: 6-8, 1932.
- Ross, Armstrong & Patterson, Ent.
Soc. R. 63: 21-24, 1932.

**Spray materials—Oil—Mineral oil and
arsenates**

- iWebster & Marshall, Wash. B. 293:
18-23, 1934.

**Spray materials—Oil—Mineral oil and
nicotine tannate**

- bWebster & Marshall, J. Ec. Ent. 27:
876-878, 1934.

Spray materials—Oil—Miscible oil

bEhrlich, Arnold Arboretum J. 13: 77-80, 1932.

Braman, Mich. St. Hort. Soc. R. 60: 35-38, 1931.

Essig, Hist. of Ent.: 417-423, 1931.

Houser, Nat. Nurseryman. 38(3): 6, 1930.

McGovran, J. Ec. Ent. 26: 911, 1933.

Newcomer & Yothers, USDA C. 175: 9-10, 1931.

Robinson, Oreg. B. 259: 21-22, 1930.

Spray materials—Oil—Nicotine

bHerbert, J. Ec. Ent. 24: 991-997, 1931.

de Sellem, Wash. St. Hort. Assoc. P. 25: 95-107, 1929.

Sherman, Mich. St. Hort. Soc. R. 60: 48-50, 1931.

Sherman, Mich. Sp. B. 221: 21-23, '32.

Spuler, Overley & Green, Wash. B. 252: 22-25, 1931.

J. Ec. Ent. 24: 20-21, 1931.

Spray materials—Oil—Penetration

bGinsburg, J. Agr. Res. 43: 469-474, '31.

Ginsburg, N.J. Dept. Ent. R. f. 1930: 163-167, 1931.

biHoskins, Hilgardia 8: 49-82, 1933.

Spray materials—Oil—Petroleum

Carter, Science n.s. 80: 315, 1934.

Dean, Kans. St. Hort. Soc. Bien. R. 42: 26-32, 1934.

bDeOng, Indus. & Engin. Chem. 22: 836-839, 1930.

DeOng, Oil, Paint & Drug. Report. 117(6): 19, 1930.

Francis, Gas & Oil J. 32(33): 16, 34, '34.

Frazier, Amer. Fr. Grow. Mag. 52(2): 7, 36-37, 1932.

bFreeborn, Regan & Berry, J. Ec. Ent. 27: 382-388, 1934.

biGreen, J. Agr. Res. 44: 773-787, 1932.

Herman, Que. Soc. f. Prot. Pl. R. 22: 19-26, 1931.

biO'Kane & Baker, N.H. TB 60, 1934, 12p.

Richardson, J. Ec. Ent. 23: 753-758, '30.

Richardson, Iowa Hort. Soc. Trans. 66: 9-10, 1931.

iRohrbaugh, Cit. Leaves 13(7): 6-7, '33.

biRohrbaugh, Pl. Physiol. 9: 699-730, 1934.

biSwain & Green, J. Ec. Ent. 26: 1021-1030, 1933.

Woodhams, Cal. Agr. Mo. B. 20: 325-330, 1931.

biYoung, J. Agr. Res. 49: 559-571, 1934.

Standard Oil B. 19(8): 3-7, 11, 16, 1931.

Spray materials—Oil—Petroleum—Evaporation

Dawsey, J. Ec. Ent. 26: 735-736, 1933.

Spray materials—Oil—Petroleum—Freezing

biYoung, Pl. Physiol. 9: 795-804, 1934.

Spray materials—Oil—Petroleum distillate

bGinsburg, J. Ec. Ent. 27: 1186-1188, 1934.

Spray materials—Oil—Petroleum—Unsaturated

Carter, Science n.s. 80: 315, 1934.

Spray materials—Oil—Physiological action

bStrand, J. Ec. Ent. 25: 991-994, 1932.

Spray materials—Oil—Pine oil

Driggers, N.J. Dept. Ent. R. f. 1930: 156-158, 1931.

Hamilton, Nat. Shade Tree Conf. P. 10: 32-36, 1934.

iThompson & Worthley, J. Ec. Ent. 26: 1112-1117, 1933.

Spray materials—Oil—Pine tar

DeOng, Sci. News Letter 20: 270, 1931.

Spray materials—Oil—Pyrethrum

iGinsburg, N.J. R. 51: 160-167, 1930.

Ginsburg, N.J. Dept. Ent. R. f. 1930: 160-163, 1931.

Weed, J. Ec. Ent. 24: 95-97, 1931.

J. Ec. Ent. 24: 21, 1931.

Spray materials—Oil—Refined—Toxicity

bSmith, J. Ec. Ent. 25: 988-990, 1932.

Spray materials—Oil—Selection and compatibility

Garman, Conn. B. 327: 527-529, 1931.

Spray materials—Oil—Staining

Haynes, Stain Tech. 5: 29, 1930.

Spray materials—Oil—Standardized

bTurner, J. Ec. Ent. 24: 901-904, 1931.

Spray materials—Oil—Sulphur

Ginsburg, N.J. R. 50: 173-176, 1929.

Ginsburg, N.J. Dept. Ent. R. f. 1929: 175-176, 1930.

†Spray materials—Oil—Summer spray

Brown, Cal. Agr. Mo. B. 20: 180-184, 1931.

Cutright, Amer. Pom. Soc. P. 48: 144-148, 1932.

†**Spray materials—Oil Cont'd**

- Garman, Conn. Pom. Soc. P. 44: 82-84, 1934.
- Ginsburg, N.J. Dept. Ent. R. f. 1929: 173-174, 1930.
- biGinsburg, J. Ec. Ent. 24: 283-290, '31.
- Magness, Md. St. Hort. Soc. R. 32: 180-181, 185-186, 1930.
- Mumford, Ill. R. 45: 141-142, 1932.
- Newcomer, Ida. St. Hort. Assoc. P. 35: 102-103, 1930.
- iPartlow, Purdue Agr. 28: 34, 1934.
- Quaintance & Siegler, USDA FB 1666: 22-23, 1931.
- Spuler, Ida. St. Hort. Assoc. P. 36: 69-71, 1931.
- Talbert & Swartwout, Mo. B. 301: 4-5, 1931.
- Turner, Conn. Pom. Soc. P. 40: 105-106, 1931.
- Vaughan, Wis. Hort. 22(1): 10, 1931.
- Wakeland, Ida. St. Hort. Assoc. P. 35: 34-38, 1930.
- Yocum, Neb. St. Hort. Soc. P. 61: 48, 1930; P. 62: 45-48, 1931.
- J. Ec. Ent. 24: 21, 1931.
- Spray materials—Oil—Tank mix**
- Borden, Pac. Rur. Press 125: 106, '33.
- iBorden, Cal. B. 579, 1934. 20 p.
- Hutchison, Cal. R. f. 1931-1932: 61-62, 1933; R. f. 1932-1934: 73.
- Sarr, Diamond Walnut News 15(4): 9, '33.
- Smith, Cit. Leaves 10(7): 3-4, 1930.
- Smith, J. Ec. Ent. 23: 376-382, 1009-1011, 1930.
- Smith, Pa. St. Hort. Assoc. P. 71: 86-87, 1930.
- Smith, Tex. Cit. 7(2): 8, 20, 27, 32, '30.
- iSmith, Cal. B. 527, 1932. 86p.
- Smith, Annual Cit. Inst. Edinburg Coll. (Tex.) P. 2: 137-144, 1933.
- Spray materials—Oil—Volatility in relation to injury**
- Robinson & Hatch, Oreg. St. Hort. Soc. R. 26: 81-84, 1934.
- Spray materials—Oil—White oils**
- Dell, Kans. St. Hort. Soc. Bien. R. 42: 23-26, 1934.
- bFrost, J. Ec. Ent. 27: 459-461, 1934.
- Hamilton, N.J. C. 334: 3-4, 1934.
- Hutson, Mich. St. Hort. Soc. R. 62: 76, 1933.

- iMacCreary, Del. B. 184, 1933. 43p.
- bWoglum & LaFollette, J. Ec. Ent. 27: 978-980, 1934.
- iStandard Oil Co. Tech. Div. B. 228-B, 1931. 36p.; B. 228-C, 1933. 34p.
- Spray materials—Oil—White oil and pyrethrum**
- Driggers, N.J. R. 50: 154-156, 1929.
- Sprays materials—Oil dust**
- Ill. St. Hort. Soc. Trans. 64: 47-48, '30.
- Wis. Hort. 22: 322, 1932.
- †**Spray materials—Oil emulsion**
- Aull & Dean, J. Ec. Ent. 26: 912-913, 1933.
- iBaier, Cal. Cit. 16: 424-425, 1931.
- Bilsing, Tex. R. 47: 49, 1934.
- Brown, Ala. Ext. C. 138: 16-17, 1933.
- biCressman & Dawsey, J. Agr. Res. 49: 1-19, 1934.
- Davis & Gardner, Ind. Ext. B. 176: 23, 1931.
- Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 72-74, 1930.
- Dustan, Ont. Veg. Grow. Assoc. R. 25: 47-49, 1930.
- Eddy et al, Ky. B. 353: 209, 1934.
- English, Ala. Poly. R. 40: 22-23, 1929.
- English, J. Agr. Res. 21: 131-133, '30.
- English, Ala. R. 41: 31-32, 1930; R. 42: 48, 1931; R. 43: 23-24, 1932.
- Frost, J. Ec. Ent. 25: 384, 1932.
- Hartzell, Md. St. Hort. Soc. P. 36: 11-12, 1934.
- iHutcheson, Va. Ext. B. 131: 23-24, '33.
- Knight, USDA Bur. Chem. & Soils R. f. 1933: 29.
- bLilly & Fluke, J. Ec. Ent. 27: 1145-1147, 1934.
- Lockenby, Wash. St. Hort. Soc. P. 26: 185, 1930.
- MacCreary, Del. B. 184, 1933. 43p.
- McDaniel, Mich. C. B. 133: 16-17, 1930.
- Miller, N.J. Dept. Ent. R. f. 1930: 144, 1931.
- Mumford, Ill. R. 46: 163, 1933.
- Newcomer, USDA FB 1326 rev.: 14-15, 1931.
- Newcomer & Carter, J. Ec. Ent. 26: 880-887, 1933.
- Newcomer & Yothers, USDA C. 175: 9-10, 1931.

- Quaintance & Siegler, USDA FB 1666: 16-23, 1931.
- Richardson, J. Ec. Ent. 24: 918-919, 1931.
- bRoark, Pac. Sci. Cong. 5, P. 5: 3407, 1934.
- Robinson, J. Ec. Ent. 25: 995-1001, 1932.
- Serr, Diamond Walnut News 15(4): 9, 1933.
- Smith, Annual Cit. Inst. Edinburg Coll. (Tex.) P. 2: 22-29, 1933.
- Snapp, Tenn. St. Hort. Soc. R. 27: 14-20, 24-33, 1931.
- iSwingle, USDA TB 253, 1931, 48p.
- Wakeland, Ida. St. Hort. Soc. P. 37: 43-54, 1932.
- Watson, Fla. P. B. 429 rev.: 2, 1931.
- Yothers, Fla. St. Hort. Soc. P. 45: 111-113, 1932.
- Yothers & Miller, Fla. St. Hort. Soc. P. 46: 48-49, 1933.
- Spray materials—Oil emulsion—Agitation methods**
- iSmith, Cal. Cult. 78: 565, 577, 1932.
- Spray materials—Oil emulsion—Covering**
- Snapp & Thomson, J. Ec. Ent. 23: 642, 1930.
- Spray materials—Oil emulsion—Creosote**
- Stanley et al, J. Ec. Ent. 27: 785-788, 1934.
- Spray materials—Oil emulsion—Cresylic acid**
- bGinsburg, J. Ec. Ent. 26: 566-571, '33.
- Headlee, N.J. R. 50: 145, 1929.
- Spray materials—Oil emulsion—Oil deposit**
- iBorden & Hensill, J. Ec. Ent. 23: 834-841, 1930.
- Spray materials—Oil emulsion—Paradichlorobenzene**
- bSnapp & Thomson, J. Ec. Ent. 27: 771-779, 1934.
- Spray materials—Oil emulsion—Sulphur**
- biFarrar & Smith, J. Ec. Ent. 23: 979-985, 1930.
- Spray materials—Oleic acid**
- bMarshall, Que. Soc. Prot. Pl. R. 25/26: 129, 1934.
- Spray materials—Orange oil**
- Braunton, Cal. Cult. 76: 574, 1931.
- Spray materials—Orthodichlorobenzene**
- Snyder, USDA FB 1472 rev.: 17-18, 1934.
- Spray materials—Paris green**
- Caffrey, Md. Agr. Soc. R. 19: 274, 1934.
- iDustan, Can. Glad. Soc. Quart. Oct. 1934: 13-17.
- Drake & Richardson, Iowa R. f. 1934: 101-102.
- Weigel, W. Wash. Hort. Assoc. P. 25: 18, 1934.
- Wright, New Eng. Glad. Soc. YB f. 1934: 111-113.
- Spray materials—Penetrol**
- Hoosier Hort. 12: 77, 1930.
- Spray materials—Pentathionic acid**
- biLiming, Phytopath. 23: 155-174, 1933.
- Spray materials—Poison**
- Weigel, W. Wash. Hort. Assoc. P. 25: 18, 1934.
- Spray materials—Potassium fluosilicate and fish oil**
- Newcomer & Carter, Ida. St. Hort. Assoc. P. 36: 163-165, 1931.
- Spray materials—Potassium sulphide**
- iMcGregor, USDA FB 831 rev.: 10, '34.
- Spray materials—Preparation, mixing**
- Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 72-82, 1930.
- Ill. St. Hort. Soc. Trans. 65: 71-80, '31.
- Spray materials—Pyrethrin**
- Richardson, J. Ec. Ent. 25, 415, 1932.
- Spray materials—Pyrethrum**
- Badertscher, J. Ec. Ent. 24: 268-277, 1931.
- Caesar, Can. Glad. Soc. B. 7: 77-78, 1930.
- Chadwick, Flor. Rev. 70(1805): 66, 1932.
- iGarman, J. Ec. Ent. 27: 361-364, 1934.
- biGnadinger et al, Col. B. 440, 1933, 19p.
- Gray, Que. Soc. Prot. Pl. R. 25/26: 50, 1934.
- biHaegele, J. Ec. Ent. 25: 1073-1077, '32.
- Headlee, N.J. R. 51: 153-156, 1930.
- Holt, Mil. Surgeon 69: 625-627, 1931.
- Hutson, J. Ec. Ent. 26: 1171, 1933.
- McCormick & Co., Fla. Ent. 14: 18, 1930.
- iMumford, Ill. R. 45: 142, 1932.
- Newcomer, USDA C. 270: 70, 1933.
- Richardson, J. Ec. Ent. 26: 914-915, '33.

Spray materials—Pyrethrum *Cont'd*

- iRuggles, Minn. Hort. 61: 173-174, '33.
Walker, Ga.-Fla. Pecan Grow. Assoc.
P. 26: 39-43, 1932.

Spray materials—Pyrethrum and oil

- iCook, USDA YB f. 1934: 332-334.

Spray materials—Pyrethrum and soap

- iFleming, Metzger & Osburn, USDA C
326: 5-6, 1934.
Walker, Va. Truck B. 75: 962-965, 1931.

Spray materials—Quassia

- Mote, Pac. Hop Grow. 2(3): 5, 1934.

Spray materials—Rotenone

- Badertscher, Soap 9(8): 85, 1933.

Spray materials—Selenium

- Cal. Cult. 80: 537, 1933.
Sci. News Letter 24: 120, 1933.

Spray materials—Selocide

- Hutchison, Cal. R. f. 1932-1934: 55-56.
Lamiman, Pac. Rur. Press 125: 94, '33.

Spray materials—Soap

- Badertscher, J. Ec. Ent. 24: 268-277,
1931.

- Chambers, Wis. Hort. 22: 172-173, '32.

- bCressman, Bliss & Haas, Soap 8(2): 74-
75, 1932.

- Cressman et al, J. Ec. Ent. 24: 1252-
1255, 1931.

- Eddy, J. Ec. Ent. 27: 399-400, 1934.

- Fleming & Baker, J. Agr. Res. 49: 29-
38, 1934.

- Fulton, J. Ec. Ent. 23: 625-630, 1930.

- Marcovitch, Tenn. R. 45: 34, 1932.

- bMarshall, Que. Soc. Prot. Pl. R. 25/26:
127, 1934.

- iPartlow, Purdue Agr. 28: 34, 41, 1934.

- Quaintance¹ & Siegler, USDA FB 1666:
23-24, 1931.

- Walker, Va. Truck B. 75: 965-968, '31.

- Webster, J. Ec. Ent. 27: 415-416, 1934.

- Yothers & Miller, Fla. St. Hort. Soc. P.
46: 49-50, 1933.

Spray materials—Soap and carbolic acid

- Bentley, Tenn. St. Hort. Soc. P. 25:
89-92, 1930.

Spray materials—Soap and naphthalene

- Bentley, Tenn. St. Hort. Soc. P. 25:
89-91, 1930.

Spray materials—Sodium fluosilicate

- Watson, Fla. Grow. 41(1): 23, 1933.

**Spray materials—Spreaders and stickers,
see Spray spreaders and stickers****Spray materials—Sulphite**

- Hurt, Va. Poly. Inst. B. 277: 10, 1931.

Spray materials—Sulphur

- Alexander & Young, Science n.s. 74:
314-315, 1931.

- Bottel, Cal. Cit. 15: 368, 1930.

- Christensen, Wis. B. 421: 69-70, 1932.

- bDriggers & Pepper, J. Ec. Ent. 27: 432-
440, 1934.

- Farley, N.J. Agr. 12(4): 16, 1930.

- iGarman, Conn. B. 349: 453-454, 1933.

- Kelsall & Hockey, N.S. Fr. Grow.
Assoc. R. 68/69: 28-29, 1931.

- iLockwood, Cit. Leaves 12(6): 7-8, '32.

- iMcGregor, Cal. Cit. 17: 182, 193, 213,
1932.

- Mote, Pac. Hop. Grow. 2(3): 4, 1934.

- Potter et al, N.H. Ext. B. 47: 50-51,
1934.

- Ruggles, Minn. Hort. 61: 132, 1933.

- iStreeter & Rankin, N.Y. (Gen.) TB
160, 1930, 16p.

- Tweedsdale, Flor. Exch. 77(18): 33-34,
1931.

- Watson, Fla. Grow. 40(5): 22, 1932.

- Watson & Berger, Fla. Ext. B. 67: 90-
93, 1932.

- Young, Nat. Shade Tree Conf. P. 7:
86-87, 1931.

**Spray materials—Sulphur—Flotation and
Bentonite**

- Kelsall & Hockey, N.S. Fr. Grow.
Assoc. R. 68: 28-30, 1931.

Spray materials—Sulphur—Wettable

- Dutton, Mich. Sp. B. 203: 11-12, 1930.

- McWhorter et al, Oreg. Ext. B. 470:
9-10, 1934.

- Wilcox & Baker, W. Wash. Hort.
Assoc. P. 25: 11-12, 1934.

Spray materials—Sulphur and arsenic

- Lajoie, Que. Dept. Agr. R. f. 1931/
1932: 154.

Spray materials—Sulphur and oil

- L.S., Flor. Rev. 65(1686): 116, 118,
1930.

Spray materials—Sulphur compounds

- Kelsall & Hockey, N.S. Fr. Grow.
Assoc. R. 66: 52-59, 1930.

**Spray materials—Sulphur, resin and potas-
sium hydroxide**

- Can. Hort. Fr. & Truck ed. 54: 28, '31.

Spray materials—Standard—Summer spraying

iQuaintance & Siegler, USDA FB 1666: 58-60, 1931.

Spray materials—Tar distillate oils

Burdette, Canning Age 15: 399-400, 424, 1934.

Burrell, N.H. Hort. Soc. R. 23: 34-36, 1933.

Davis, N.H. Hort. Soc. R. 20: 48-49, '31.

Fluke, Wis. Hort. 22: 129, 1932.

Frost, Pa. B. 308: 22, 1934.

bGimingham, Pac. Sci. Cong. 5, P. 5: 3425-3427, 1934.

Hartzell, J. Ec. Ent. 26: 474-486, 1933.

biHartzell, N.Y. (Gen.) B. 637, 1933. 23p.

Hartzell, Conn. Pom. Soc. P. 44: 94-106, 1934.

Hartzell, Md. Agr. Soc. R. 18: 102-110, 1934.

Hartzell, Md. St. Hort. Soc. P. 36: 9-13, 1934.

Hartzell, Pa. St. Hort. Assoc. P. 75: 75-86, 1934.

Hartzell & Parrott, N.Y. (Gen.) B. 636, 1933. 29p.

Hartzell et al, J. Ec. Ent. 25: 607-613, 1932; 27: 453-459, 1934.

Hedrick, N.Y. (Gen.) R. 50: 59-60, 1931; R. 51: 58-59, 1932; R. 53: 45-46, 1934.

bHough, J. Ec. Ent. 25: 613-617, 1932; 26: 470-473, 1933.

Hurt, Va. St. Hort. Soc. P. 36: 99-104, 1931.

Hurt, Va. Fruit 20(8): 4, 6, 1932.

bHurt, Va. Poly. B. 293, 1933. 16p.

Hurt, Md. Fr. Grow. 4(2): 2, 1934.

Hurt, Va. St. Hort. Soc. P. 38: 149-160, 1934.

iHutcheson, Va. Ext. B. 131: 22, 1933.

Ladd, N.Y. (Gen.) R. 52: 57-59, 1933.

bLilly & Fluke, J. Ec. Ent. 27: 1145-1147, 1934.

Schneiderhan, Mountainer Grow. 5 (47): 30-31, 1934.

Spray materials—Tartar emetic

Burdette, J. Ec. Ent. 27: 213-217, '34.

Spray materials—Tests

Adams, Del. B. 179: 51-54, 1932.

iBoyce, Diamond Walnut News 14(3): 15-17, 1932.

Caesar, Ont. Min. Agr. R. f. 1932: 46, 1933.

Cooper, Ky. R. 46, Pt. 1: 42-43, 1934.

Driggers, N.J. Dept. Ent. R. f. 1929: 150-153, 1930.

Garman, Conn. B. 338: 578-579, 1932.

Hamilton, N.J. R. 52: 251-253, 1931.

Kelsall & Hockey, N.S. Fr. Grow.

Assoc. R. 67: 176-179, 1930; R. 68-69: 25-33, 1931.

Manns, Del. B. 162: 53, 1929.

Roberts & Bourne, Mass. Fr. Grow.

Assoc. Inc. R. 37: 64-71, 1931.

Slate, Conn. B. 322: 119-120, 1931.

Worthley, Pa. St. Hort. Assoc. P. 73: 22-26, 1932.

N.J. Dept. Agr. R. f. 1931: 126-128, 1932.

Spray materials—Triethanolamine emulsion

Wilson, Indus. & Engin. Chem. 22: 143-146, 1930.

Spray materials—Zinc arsenite

biDaniels, Col. B. 400: 5-34, 1933.

Spray materials—Zinc lime

Hurt, Va. St. Hort. Soc. P. 36: 94-98, 1931.

Hurt, Va. Fr. 20(3): 10, 12, 1932.

iHutcheson, Va. Ext. B. 131: 19-20, '33.

Sherwood, W.Va. Ext. C. 304: 24-25, 1934.

Young, Ohio St. Hort. Soc. P. 66: 21-23, 1933.

Spray materials—Zinc sulphate

Dunlap et al, Ill. St. Hort. Soc. Trans. 64: 81, 1930.

Woglum, Cal. Fr. Grow. Exch. B. 11: 22-23, 1934.

Spray programs, see Spray calendars and programs**‡Spray residue**

Bourne, Mass. B. 271: 257-258, 1931;

B. 280: 216, 1932; B. 293: 31, 1933; B. 305: 31-32, 1934.

Burkholder & Ford, Ind. St. Hort. Soc. Trans. 72: 57-63, 1933.

Burrell, N.H. Hort. Soc. R. 23: 49-50, 1933.

Clarke, Kans. St. Hort. Soc. Bien. R. 40: 69-77, 1930.

Clarke, N.Y. St. Hort. Soc. P. 79: 231-232, 1934.

†Spray residue *Cont'd*

- Cole, Oreg. Dept. Agr. B. 15: 12-13, 1933; B. 36: 19, 1934.
- Cory, Md. Fr. Grow. 3(5): 1-2, 1933.
- Cory, Md. St. Hort. Soc. P. 36: 51, '34.
- iDawsey & Haas, J. Agr. Res. 46: 41-49, 1933.
- Dean, Ida. Dept. Agr. Bien. R. 6: 11-13, 1930.
- Drinkard, Va. Poly. R. f. 1927/1931: 10-11.
- Eddy et al, Ky. B. 353: 206, 1934.
- Essig & Hoskins, Cal. Ext. C. 87: 146-147, 1934.
- Farley, N.Y. St. Hort. Soc. P. 78: 87-92, 1933.
- Farley, Peninsula Hort. Soc. Trans. 48: 134-135, 1934.
- bFilingier, Kans. St. Hort. Soc. Bien. R. 42: 126-129, 1934.
- Flint, Iowa St. Hort. Soc. Trans. 65: 102-107, 1930.
- Geagley, Mich. St. Hort. Soc. R. 61: 61-70, 1932.
- Hartigan, Neb. St. Hort. Soc. P. 62: 33-41, 1931.
- Hedrick, N.Y. (Gen.) R. 51: 44, 1932.
- Heller, Wash. B. 245: 24, 1930.
- Hill, Wash. St. Hort. Assoc. P. 29: 17-20, 1933.
- Holland, Amer. Soc. Hort. Sci. P. f. 1930: 543-545, 1931.
- Hood, USDA C. 235: 9-10, 1932.
- Houser et al, Ohio Farm. 171: 206, '33.
- Ingerson, Ohio St. Hort. Soc. P. 64: 55-56, 1931.
- Kendall, N.H. B. 270: 12, 1933.
- Knight, USDA Bur. Chem. & Soils R. f. 1931: 28; R. f. 1932: 19; R. f. 1933: 28; R. f. 1934: 28.
- Koehne, Ind. Hort. Soc. Trans. 73: 82-85, 1933.
- Lipman, N.J. R. 50: 37-39, 1929; 52: 45-47, 1931.
- bList, Col. B. 385: 95-96, 1932.
- McLean, N.J. St. Hort. Soc. P. f. 1930: 252-258, 1931.
- McWhorter et al., Oreg. Ext. B. 470: 11-12, 1934.
- Magnuson, Univ. Ida. News Letter 18(5): 1-2, Sept. 1934.
- iMarshall & Ford, Ind. B. 381, 1933, 18p.
- Meek, Va. Fr. 21(1): 32-33, 1933.
- Metzger, Mich. Dept. Agr. Bien. R. 6: 121, 1934.
- Moore, Wash. St. Hort. Assoc. P. 28: 128-133, 1932.
- Moore, Ida. St. Hort. Assoc. Conv. 38: 107-111, 1933; 39: 157-165, 1934.
- Moznette, Ga.-Fla. Pecan Grow. Assoc. P. 24: 28-34, 1930.
- bMyers et al, Indus. & Engin. Chem. 25: 624-628, 1933.
- Nichols, Iowa Hort. Soc. Trans. 67: 105-108, 1932.
- Overlay, Amer. Soc. Hort. Sci. P. 26: 348-359, 1930.
- bPercival & Potter, N.H. TB 49, 1932, 15p.
- iPlank, Cal. Agr. Mo. B. 22: 373-375, 1933.
- Powell, Mich. St. Dept. Agr. Bien. R. 4: 104-105, 1930; R. 5: 82-83, 1932.
- Prather, Tenn. St. Hort. Soc. P. 28: 44-45, 1932.
- Price, Amer. Pom. Soc. P. f. 1929/1930: 65-66.
- Rex, N.J. Dept. Agr. C. 242: 32-33, '34.
- bRichardson, Iowa St. Hort. Soc. Trans. 68: 73-84, 1933.
- Roberts & Bourne, Mass. Fr. Grow. Assoc. R. 38: 154-161, 1932.
- Runner, Ohio St. Hort. Soc. P. 65: 206-211, 1932.
- Sherwood, W.Va. Ext. C. 304: 11-12, 1934.
- Skinner, Ind. R. 46: 28, 1933.
- Smith, Ill. St. Hort. Soc. Trans. 64: 154-169, 1930.
- Stone et al, Fla. B. 251: 7-8, 1932.
- Streeter, N.Y. St. Hort. Soc. P. 76: 51-54, 1931.
- iStreeter et al., N.Y. (Gen.) B. 611, 1932, 19p.
- Talbert & Tayloe, Amer. Soc. Hort. Sci. P. 27: 538-545, 1931.
- biTalbert & Tayloe, Missouri Res. B. 183, 1933, 19p.
- bWeber, N.H. Hort. Soc. R. 20: 22-34, 1931.
- Webster & Marshall, Wash. St. Hort. Assoc. P. 29: 62-70, 1933.
- Wicks, Ida. Dept. Agr. Bien. R. 6: 39, 1930; R. 7: 18-19, 1932.

- Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 145, 1932.
- Yocum, Neb. St. Hort. Soc. R. 61: 49-51, 1930.
- Spray residue—Analysis**
- biFrear & Haley, Penn. B. 304, 1934, 8p.
- Maine, B. 369: 551, 1933.
- †**Spray residue—Apples**
- Bailey, Conn. Pom. Soc. P. 41: 40-42, 1932.
- bCarter & Newcomer, J. Ec. Ent. 26: 572-580, 1933.
- Earnshaw, Va. St. Hort. Soc. P. 38: 40-51, 1934.
- biFrear & Haley, Penn. B. 304, 1934, 8p.
- Garcia, N.Mex. R. 41: 67-68, 1931.
- Hendall, N.H. B. 250: 18-19, 1930.
- Nichols, Iowa Hort. Soc. Trans. 66: 29-30, 1931.
- Overholser & Overley, Wash. B. 305: 44, 1934.
- Overley, Wash. B. 275: 43, 1932.
- biOverley & Overholser, Wash. Pop. B. 149, 1934, 20p.
- bPercival & Potter, N.H. Ext. C. 136, 1932, 4p.; TB 49, 1932, 15p.
- Rawlings, N.H. Hort. Soc. R. 23: 26-32, 1933; R. 24: 35-39, 1934.
- Spray residue—Arsenic**
- Cory, Md. St. Hort. Soc. P. 35: 87-89, 1933.
- Fromme, W.Va. B. 354: 35-36, 1932.
- iHarding, Sci. Amer. 149: 197-199, '33.
- James, Penn. St. Hort. Soc. P. f. 1932: 109-111.
- Jones, Va. Dept. Agr. B. 279: 28-30, '31.
- Ladd, N.Y. (Gen.) R. 52: 71, 1933.
- Ramsower, Ohio Ext. B. 128: 25, 1932.
- Symons, Md. Univ. & St. Bd. Agr. Bien. R. f. 1930/1932: 100, 1933.
- Taylor, Fla. Dept. Agr. Quar. B. 42(1): 35-38, 1932.
- Webster, J. Ec. Ent. 27: 410-417, 1934.
- biWebster & Marshall, Wash. B. 293, 1934, 31p.
- Wharton, Peninsula Hort. Soc. Trans. f. 1931: 89-98.
- Spray residue—Arsenic—Analysis**
- iBarnes & Murray, Indus. & Engin. Chem. Anal. ed. 2: 29-30, 1930.
- Deemer & Schricker, Assoc. Off. Agr. Chem. J. 16: 226-232, 1933.
- iGross, Assoc. Off. Agr. Chem. J. 16: 398-403, 1933.
- biGross, Indus. & Engin. Chem. Anal. ed., 5: 58-60, 1933.
- Jones, Assoc. Off. Agr. Chem. J. 16: 325-329, 1933.
- bRemington, Coulson & von Kolnitz, Indus. & Engin. Chem. Anal. ed. 6: 280-281, 1934.
- Spencer, Assoc. Off. Agr. Chem. J. 14: 434-435, 1931.
- Taber, Assoc. Off. Agr. Chem. J. 14: 436-447, 1931.
- Wichman, Assoc. Off. Agr. Chem. J. 16: 322-324, 1933.
- Spray residue—Arsenic—Apples**
- Garcia, N.Mex. R. 44: 45, 1934.
- Hodgkiss & Haley, J. Ec. Ent. 24: 83-88, 1931.
- biNeller, Indus. & Engin. Chem. Anal. ed. 2: 382-384, 1930.
- Webster, Spuler & Marshall, Wash. B. 275: 32-33, 1932.
- N.Mex. R. 42: 38-40, 1932.
- Spray residue—Arsenic—Cherries**
- bList, Col. B. 385: 91-95, 1932.
- Robinson, Oreg. B. 298: 1-15, 1932.
- Spray residue—Arsenic—Citrus**
- Longfield-Smith, Fla. Dept. Agr. Chem. Div. R. f. 1933/1934: 6-70.
- Spray residue—Arsenic content**
- Hodgkiss, Penn. St. Hort. Assoc. News 8: 18-27, 1931.
- Spray residue—Arsenic—Legislation**
- Mayo, Fla. St. Dept. Agr. Div. Agr. & Immig. Bien. R. 21: 22-25, 1930.
- Spray residue—Arsenic—Pastures**
- Pac. Rur. Press 120: 136, 1930.
- Spray residue—Arsenic—Poisonous to poultry**
- bWeber, Burdette & Hudson, North Amer. Vet. 13(12): 46-47, 1932.
- Spray residue—Arsenious oxide**
- iMarshall & Ford, Ind. B. 381, 1933, 18p.
- Spray residue—Barium fluosilicate—Analysis**
- Carter, Indus. & Engin. Chem. Anal. ed. 3: 146-147, 1931.
- Spray residue—Blueberries**
- Barlett, Maine Off. Inspec. 143: 3, '32.
- Spray residue—Calcium arsenate**
- Johnston, Mich. Sp. B. 252: 41-42, '34.

Spray residue—Chemicals

Ingerson, Penn. St. Hort. Assoc. P. 73:
46-49, 1932.

Spray residue—Cryolite—Solvents

Carter, J. Ec. Ent. 27: 863, 1934.

Spray residue—Fluorine—Analysis

Shuey, Assoc. Off. Agr. Chem. J. 16:
153-155, 1933.

Wichmann & Dahle, Assoc. Off. Agr.
Chem. J. 16: 612-624, 1933.

Spray residue—Fluorine—Apples

Carter, J. Ec. Ent. 25: 1243-1244, 1932.

Spray residue—Fluorine compounds

bDeEds, Medicine 13: 1-49, 1933.

Marcovitch, J. Ec. Ent. 25: 141-142, '32.

Spray residue—Food and Drug Officials Report

Assoc. Food & Drug Officials, New
Orleans, La., Neb. St. Hort. Soc. P.
62: 41-44, 1931.

Assoc. Food & Drug Officials, New
Orleans, La., Neb. St. Bd. Agr. R. f.
1931: 479-483.

Spray residue—Grapes

Rur. N.Y. 89: 1079, 1930.

Spray residue—Inspection

Griner, Wash. St. Hort. Assoc. P. 30:
92-93, 1934.

Read, Blue Anchor 11(6): 2, 11, 1934.

Spray residue—Laboratory operations

Wilson, Ida. St. Hort. Assoc. Conv. 39:
41-49, 1934.

Spray residue—Lead—Analysis

Berry, Assoc. Off. Agr. Chem. J. 14:
452-454, 1931.

Harris, Assoc. Off. Agr. Chem. J. 16:
245-246, 1933.

Wichmann, Assoc. Off. Agr. Chem. J.
16: 321-322, 1933.

Spray residue—Lead arsenate

Burkholder, Hoosier Hort. 15: 115-116,
1933.

Kallet & Schlink, Nation 135: 325-327,
1932.

iTaber, Assoc. Off. Agr. Chem. J. 13:
417-422, 1930.

Witter, Vet. Med. 29: 512-513, 1934.

Spray residue—Lead arsenate—Solvents

Carter, J. Ec. Ent. 27: 848-853, 1934.

Spray residue—Manganese arsenate

Amer. Fr. Grow. Mag. 53(4): 10, 1933.

Spray residue—Nutrition experiments

Talbert, Iowa St. Hort. Soc. Trans. 68:
84-91, 1933.

Spray residue—Oil

English, Ala. R. 43: 24, 1932.

Spray residue—Oil—Nicotine

bWebster & Marshall, J. Ec. Ent. 27:
876-878, 1934.

Spray residue—Regulations

iTesché, Pac. Rur. Press 119: 646-647,
1930.

Spray residue—Sprinkler irrigation

iDiehl, Northw. Fr. Grow. 3(1): 7, 13, '31.

Spray residue—Symposium

Parrot, J. Ec. Ent. 27: 124, 1934.

Spray residue—Tests

Wicks, Ida. St. Hort. Assoc. P. 36: 167-
168, 1931.

Spray residue—Tolerance

Currie, Pac. Rur. Press 126: 39, 1933.

McLean, Amer. Fr. Grow. Mag. 53(5):
7, 11, 1933.

Niles, Ky. St. Hort. Soc. Trans. 76:
104-107, 1931.

Stear, Hoosier Hort. 13: 172, 1931.

Trigg, Oil, Paint & Drug Report. 123
(24): 34, 1933.

Tugwell, Mountaineer Grow. 4(39): 4,
1933.

Weber & Goodman, Northw. Fr. Grow.
5(6): 14, 1933.

White, J. Ec. Ent. 27: 125-133, 1934.

Business Week 194: 14, May 24, 1933.

Northw. Fr. Grow. 5(10): 3, 1933.

Oil, Paint & Drug Report. 123(17): 15,
29, 1933; 124(27): 24, 1933.

Seed World 34(5): 12, 1933.

Spray residue—Toxicity to man

bTalbert, Iowa St. Hort. Soc. Trans. 68:
84-91, 1933.

Better Fruit 25(10): 9, 1931.

Spray residue—Vegetables

bWhite, Indus. & Engin. Chem. 25: 621-
623, 1933.

Market. Grow. J. 52: 139, 1933.

Spray residue and growth of celery plant

Stone et al., Fla. B. 251: 8-10, 1932.

†Spray residue removal

Abildgaard, Neb. St. Hort. Soc. R. 61:
102-106, 1930.

Abildgaard, Penn. St. Hort. Assoc. P.
72: 33-37, 1931.

- Allen, Ill. St. Hort. Soc. Trans. 64: 175-177, 1930.
- Barron, Ill. St. Hort. Soc. Trans. 64: 169-175, 1930.
- Brinton, Peninsula Hort. Soc. Trans. 44: 74-81, 1930.
- Chapman, N.H. Hort. Soc. R. 19: 42-46, 1930.
- Christopher, Amer. Soc. Hort. Sci. P. 30: 614-616, 1933.
- Cooper, Ky. St. Hort. Soc. Trans. f. 1933: 129-131.
- Cox, Cal. Agr. Mo. B. 22: 389-396, '33.
- Diehl, USDA YB f. 1931: 484-487.
- biDolman, Wash. St. Hort. Assoc. P. 28: 102-118, 1932.
- Dolman, Wash. St. Hort. Assoc. P. 30: 83-87, 1934.
- Fahey, Wash. St. Hort. Soc. P. 28: 119-123, 1932.
- Farley, Va. St. Hort. Soc. P. 38: 133-140, 1934.
- Fisher, J. Ec. Ent. 24: 526-531, 1931.
- Fisher, Md. Agr. Soc. R. 15: 210-234, 1931; R. 18: 121-131, 1934.
- iFisher, Amer. Pom. Soc. P. 49: 132-141, 1933; P. 50: 25-34, 1934.
- Fisher, Ill. St. Hort. Soc. Trans. 67: 292-302, 1934.
- iFisher, Md. St. Hort. Soc. P. 36: 27-37, 1934.
- Fisher, Mich. St. Hort. Soc. R. 64: 23-29, 1934.
- iGarver et al, Wash. B. 285, 1933, 28p.
- bHaller et al., Md. B. 368: 121-136, '34.
- Hartigan, Neb. St. Hort. Soc. R. f. 1931: 36-39.
- Holland, Ohio St. Hort. Soc. P. 64: 44-53, 1931.
- Hough, Ohio Hort. Soc. P. 67: 104-109, 1934.
- Hough & Groves, Md. St. Hort. Soc. P. 33: 74-88, 1931.
- Iddings, Ida. B. 179: 12, 1931.
- Ingerson, Penn. St. Hort. Assoc. P. 73: 37-39, 44, 1932.
- Kadow, Amer. Pom. Soc. P. 49: 111-117, 1933.
- Kadow, Ill. St. Hort. Soc. Trans. 67: 269-275, 1934.
- Leonard, Ida. St. Hort. Soc. P. 37: 90, 1932.
- Luce, Wash. St. Hort. Assoc. P. 30: 88-91, 1934.
- McLean, Peninsula Hort. Soc. Trans. 44: 82-89, 1930.
- iMcLean & Weber, N.J. Ext. B. 87, 1931, 24p.
- McLean & Weber, Peninsula Hort. Soc. Trans. 47: 43-50, 1933.
- Magnuson, Ida. Univ. News Letter 18(5): 1-2, 1934.
- bMarsh, Mich. St. Hort. Soc. R. 60: 123-127, 1931.
- Newcomer & Carter, Ida. St. Hort. Assoc. P. 36: 164-165, 1931.
- Overholser et al., Wash. St. Hort. Assoc. P. 29: 74-78, 1933.
- iOverley, Ida. St. Hort. Assoc. P. 35: 121, 1930.
- Overley, Wash. St. Hort. Assoc. P. 30: 77-82, 1934.
- Overley & Garver, Wash. St. Hort. Soc. P. 28: 89-101, 1932.
- Overley et al., Wash. St. Hort. Assoc. P. 29: 79-85, 1933.
- Pentzer, N.Y. St. Hort. Soc. P. 79: 48-51, 1934.
- Postle, Ky. Hort. Soc. Trans. 75: 64-77, 1930.
- Rawlings, Amer. Soc. Hort. Sci. P. 30: 617-620, 1933.
- Ricks, Mich. St. Hort. Soc. R. 61: 136-139, 1932.
- Robinson, Oreg. B. 298: 9-14, 1932.
- Robinson, Oreg. St. Hort. Soc. R. 25: 96-99, 1933.
- bRobinson & Hatch, Oreg. B. 317, 1933, 15p.
- Ruth, Amer. Pom. Soc. P. 49: 100-111, 1933.
- Ruth, Ill. St. Hort. Soc. Trans. 67: 257-268, 1934.
- Simpson, Md. St. Hort. Soc. P. 36: 38-40, 1934.
- Smith & Ryall, Ida. St. Hort. Assoc. P. 29: 35-41, 1934.
- Snyder, Ida. St. Hort. Soc. P. 35: 121-126, 1930; P. 37: 71-77, 1932.
- Spuler, Overley & Green, Wash. B. 252: 36, 1931.
- Streeter et al, J. Ec. Ent. 24: 240-244, '31.
- Toenjes, Mich. St. Hort. Soc. R. 60: 127-136, 1931.

†Spray residue removal *Cont'd*

- Van Zile, Ark. St. Hort. Soc. P. 50: 49-54, 1930.
 Vinson, Mo. St. Hort. Soc. P. f. 1933/1934: 90-93.
- Spray residue removal—Acid wash method**
 Farley, N.Y. Hort. Soc. P. 78: 87-92, 1933.
 bHaller et al., Md. B. 368: 126-131, '34.
 Hartigan, Neb. St. Hort. Soc. P. 62: 36-39, 1931.
 Reed & Hall, Ind. C. 197, 1933, 11p.
- Spray residue removal—Apparatus**
 Freeman, Ill. St. Hort. Soc. Trans. 64: 183-185, 1930.
 bHaller et al., Md. B. 368: 122, 1934.
 Johnson, Ill. St. Hort. Soc. Trans. 64: 178-182, 1930.
- †Spray residue removal—Apples**
 Burkholder & Ford, Ind. Hort. Soc. Trans. 71: 64-72, 1932.
 Diehl, Lutz & Ryall, USDA FB 1687, 1931, 32p.
 biFord & Burkholder, Ind. B. 345, 1931, 18p.
 bHaller et al., Md. B. 368: 121-136, '34.
 Holland, Ohio Bi-Mo. B. 151: 123-129, 1931.
 Hough et al., Va. Poly. Inst. B. 278, 1931, 16p.
 Kendall, N.H. B. 280: 13, 1934.
 biMcLean & Weber, J. Ec. Ent. 24: 1255-1261, 1931.
 Markley & Sando, Pl. Physiol. 8: 475-478, 1933.
 Newell, Ill. St. Hort. Soc. Trans. 64: 182-183, 1930.
 Overley et al., Amer. Soc. Hort. Sci. P. 30: 4-9, 1933.
 Pentzer, Amer. Soc. Hort. Sci. P. 30: 10-11, 1933.
 biPentzer, N.Y. (C.) B. 604, 1934, 27p.
 Smith et al., Wash. St. Hort. Assoc. P. 29: 86-96, 1933.
 Snyder & Magnuson, Ida. B. 187, 1931, 20p.
 bWeber & McLean, J. Ec. Ent. 26: 727-730, 1933.
- Spray residue removal—Apples—Wax solvent method**
 Neller, Indus. & Engin. Chem. 23: 323-325, 1931.

Spray residue removal—Canning peaches
 iPlank, Cal. Agr. Mo. B. 22: 113-130, 1933.

Spray residue removal—Cost

- iAbildgaard, Amer. Fr. Grow. Mag. 51(3): 17, 1931.
 Farley, Mass. Fr. Grow. Assoc. Inc. R. 40: 87-92, 1934.
 Griner, Better Fruit 28(10): 16-17, '34.
 Griner, Wash. St. Hort. Assoc. P. 29: 97-99, 1934.
 Haller, Mountaineer Grow. 5(47): 12-13, 1934.
 Knox, Amer. Fr. Grow. Mag. 50(10): 11, 1930.

Spray residue removal—Fish oil and mineral oil

- Diehl & Fahey, Wash. St. Hort. Assoc. P. 27: 57-60, 1931.

Spray residue removal—Fluorine spray

- Ryall, Wash. St. Hort. Assoc. P. 30: 86-87, 1934.

Spray residue removal—Fruit

- Burkholder, Mich. St. Hort. Soc. R. 61: 70-74, 1932.
 Fisher, Md. St. Hort. Soc. P. 33: 64-74, 1931.
 McLean & Weber, N.J. Ext. B. 122, 1934, 7p.
 iRobinson, Indus. & Engin. Chem. 25: 616-620, 1933.

Spray residue removal—Heating water

- iReed, Amer. Pom. Soc. P. 49: 117-132, 1933.
 Reed, Ill. St. Hort. Soc. Trans. 67: 276-292, 1934.

Spray residue removal—Lead

- McLean & Weber, Science n.s. 78: 579, 1933.

Spray residue removal—Lead and arsenic

- biOverley et al., Wash. B. 286, 1933, 83p.
 bRobinson & Hatch, Oreg. B. 317, 1933, 15p.

Spray residue removal—Manganese arsenate

- Overley, Overholser & St. John, Amer. Soc. Hort. Sci. P. 30: 5, 1933.

Spray residue removal—Organic solvents

- Robinson, J. Ec. Ent. 24: 119-125, '31.

Spray residue removal—Patents

- Oil, Paint & Drug Report. 125(15): 51, 1934.

Spray residue removal—Sodium silicate

DeSelle, Wash. St. Hort. Soc. P. 28:
124-127, 1932.

bHaller et al., Md. B. 368: 126-131, '34.
Overley et al., Amer. Soc. Hort. Sci. P.
30: 6-9, 1933.

Spray residue removal—Washing apples

Brazelton, Kans. Farm 72(21): 8, 1934.
Cox, Rur. N.Y. 90: 343, 1931.

Haller, Mountaineer Grow. 5(47): 8-
14, 1934.

Harman, Farm Res. 1(4): 6-7, 1934.

Magnuson, Ida. St. Hort. Assoc. P. 36:
168-172, 1931.

Miller, Mountaineer Grow. 5(52): 1-3,
1934.

Overholser, Northw. Fr. Grow. 5(9):
5, 1933.

Pearce, Farm Res. 1(2): 7, 1934.

Sherwood, Mountaineer Grow. 5(50):
1-3, 1934.

Weber & McLean, Northw. Fr. Grow.
5(9): 7, 1933.

Spray residue removal—Washing cherries

Pearce, Farm. Res. 1(2): 7, 1934.

†Spray residue removal—Washing machines

Chapman, N.H. Hort. Soc. R. 19: 43-
46, 1930.

Friday, Mich. St. Hort. Soc. R. 62: 12-
13, 1933.

iGarver, Dana & Overley, Wash. B. 285,
1933, 28p.

bHaller et al., Md. B. 368: 125-129, '34.

bHorsfall & Jayne, J. Ec. Ent. 27: 259-
261, 1934.

Ingerson, Neb. St. Bd. Agr. R. f. 1931:
486-490.

Ingerson, Neb. St. Hort. Soc. P. 62:
48-52, 1931.

iJennings, Agr. Engin. 15: 244-245, 248,
1934.

Matthews, Mich. St. Hort. Soc. R. 60:
133-136, 1931.

Rawlings, N.H. Hort. Soc. R. 23: 30-
32, 1933.

Robinson, J. Ec. Ent. 27: 162-167, '34.

Weber, N.H. Hort. Soc. R. 20: 30-32, '31.

Spray residue removal—Washing machines—Home made

Heuser, Mich. St. Hort. Soc. R. 62: 35-
39, 1933.

iMcLean, Md. Fr. Grow. 4(6): 1-8, '34.

Spray residue removal—Washing solution

iCox, Pac. Rur. Press 127: 166, 1934.

Diehl & Fahey, Northw. Fr. Grow.
2(36): 10, 1930.

iDiehl, Ryall & Fahey, Northw. Fr.
Grow. 2(35): 8, 18, 1930.

Fisher, Mountaineer Grow. 5(50): 3-7,
1934.

Gross & Fahey, Northw. Fr. Grow.
2(32/33): 22, 1930.

Harman, Farm Res. 1(4): 6-7, 1934.

Hurt, Va. Fr. 20(8): 6, 8, 1932.

Hurt, Va. Fr. 21(5): 4, 1933.

McLean, N.J. Agr. 15(5): 4-5, 1933.

Overley et al., Fr. Grow. 6(8): 6, 14;
6(9): 9; 6(10): 11, 1934.

Spray residue removal and spray schedules

bMcLean & Weber, J. Ec. Ent. 27: 168-
179, 1934.

Spray rings, see Spraying and dusting—Cooperative**Spray russetting—Iron oxide**

Drinkard, Va. St. Hort. Soc. P. 35:
160-161, 1930.

†Spray service

Adams, R.I. Ext. B. 58: 11-12, 1931.

Berkeley, Can. Dept. Agr. Exp. Farms.
R. f. 1929, sec. 4: 120, 1930.

bBonde, Maine B. 362: 223-225, 1932.

Bonde, Maine B. 377: 340-341, 1934.

Caesar, Ent. Soc. Ont. 60: 130-132, '30.

Caesar, Ont. Min. Agr. R. f. 1932: 46,
1933.

Christopher, Amer. Soc. Hort. Sci. P.
30: 614-616, 1933.

Clapp, Conn. Pom. Soc. P. 38: 118-123,
1929.

Crosby, J. Ec. Ent. 25: 539-542, 1932.

Eddy et al., Ky. B. 353: 208-209, '34.

iGodbout, Que. Pom. & Fr. Grow. Soc.
R. 37: 51-65, 1930; R. 38: 106-109
1931; R. 40: 69-75, 1933.

iGodbout & Coulson, Can. Phytopath.
Soc. P. 2: 36-42, 1932.

Goucher, N.S. Dept. Agr. R. f. 1930:
80; R. f. 1931: 132-133, 1932; R. f.
1932: 136-137, 1933.

Hedges, Tenn. St. Hort. Soc. P. 26: 31-
34, 1931.

†**Spray service Cont'd**

Hodgetts, Ont. Min. Agr. R. f. 1932: 45, 1933.

Howitt, Can. Phytopath. Soc. P. 2: 43-46, 1932.

Jones, J. Ec. Ent. 25: 537-539, 1932.

Kennedy, Ont. Agr. Coll. & Exp. Farm R. 57: 124-128, 1931.

McCue, Del. Ext. B. 20: 38-39, 1934.

McDonald, N.S. Dept. Agr. R. f. 1933: 64, 1934.

Martin, Ont. Dept. Agr. R. f. 1929: 47-48, 76-77, 1930.

Nichols, Que. Soc. f. Prot. Pl. R. 22: 17-18, 1931.

iNiles, Ky. Hort. 7(22): 5-8, 1931.

Parks, J. Ec. Ent. 25: 542-544, 1932.

Pierstorff & Parks, Ohio Pl. Dis. & Ins.

Notes 1(3): 1-4, 1930; 3(3) 1932, 6p.

Prather, Tenn. Bien. R. f. 1929/1930: 134-135, 1931.

Shropshire, J. Ec. Ent. 26: 675-676, 1933.

Simons, N.Y. (C.) Ext. News 13: 29, 1930.

Symons, Md. Ext. R. 16: 72, 1930; R. 17: 68, 1932.

Teske, Va. St. Hort. Soc. P. 38: 127-133, 1934.

†**Spray spreaders and stickers**

Adams, Del. B. 179: 54, 1932.

Boyce & Maxwell, Diamond Walnut News 15(1): 7, 1933.

Eddy et al., Ky. B. 353: 208-209, 1934.

Hamilton, J. Ec. Ent. 23: 238-251, '30.

bMarshall, Que. Soc. Prot. Pl. R. 25/26: 126-127, 1934.

Newcomer, USDA FB 1326 rev.: 15-16, 1931.

Newcomer, USDA C. 270: 70, 1933.

Potter et al., N.H. Ext. B. 47: 51, 1934.

Quaintance & Siegler, USDA FB 1666: 28-29, 1931.

Robinson, Oreg. B. 259: 25-26, 1930.

Spuler, Ida. St. Hort. Assoc. P. 36: 67-69, 1931.

Talbert & Swartwout, Missouri B. 301: 15, 1931.

Webster, J. Ec. Ent. 27: 415, 1934.

bYates, J. Ec. Ent. 26: 989-994, 1933.

Spray spreaders and stickers—Fish oil

Dozier, Del. B. 162: 29-30, 1929.

Spray spreaders and stickers—Glue

Kime, Cit. Ind. 11(11): 11, 1930.

Pring, Mo. Bot. Gard. B. 19: 39-40, 1931.

Robertson, N.Dak. St. Hort. Soc. R. 29: 19, 1932.

Ruggles, Minn. Hort. 61: 132, 1933.

Trudo, Flow. Grow. 20: 117, 1933.

Weldon, Pac. Rur. Press 119: 305, 1930.

Spray spreaders and stickers—Waxes

Ginsburg, N.J. R. 52: 195-196, 1931.

bGinsburg, J. Ec. Ent. 25: 599-607, '32.

Spray stickers, see Spray spreaders and stickers†**Spraying**

iArango, Rev. de Agr. Cuba 14(51): 17-19, 1934.

iCaesar, Can. Hort. Fr. & Truck ed. 54: 21-22, 1931.

iCardinell & Gaston, Mich. Sp. B. 220, 1932, 25p.

Childs, Oreg. St. Hort. Soc. R. f. 1931: 57-63.

Cory, Md. St. Hort. Soc. P. 34: 61-62, 1932.

Eisenhower & Chew, USDA Misc. Pub. 88: 140, 1930.

Farley, Md. Agr. Soc. R. 15: 184-196, 1931.

Farley, Md. St. Hort. Soc. P. 33: 38-50, 1931.

Flint, Amer. Pom. Soc. P. f. 1929-1930: 43-52.

Glenn, Kans. St. Hort. Soc. Bien. R. 41: 28-29, 1932.

Hartigan, Neb. St. Bd. Agr. R. f. 1931: 471-479.

Hartigan, Neb. St. Hort. Soc. R. f. 1931: 33-41.

iHodgkiss, Amer. Fr. Grow. 52(2): 5-6, 42, 1932.

Hottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 146-147, 1931.

Martin, Kans. St. Hort. Soc. Bien. R. 41: 111-115, 1932.

iMoellering, Iowa Hort. Soc. Trans. 66: 274-276, 1931.

Nixon, Ohio Veg. Grow. Assoc. P. 15: 134-139, 1930.

Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 2(4), 1931, 4p.

Skinner & Coleman, Ind. Ext. R. 22: 52, 1933.

- Talbert, Amer. Soc. Hort. Sci. P. 26: 297-299, 1930.
- Talbert & Swartwout, Miss. B. 301, 1931, 16p.
- Willard, Ohio Bi-Mo. B. 146: 161, 1930.
- Wolcott, J. Ec. Ent. 24: 136-141, 1931.
- Yocum, Neb. St. Hort. Soc. R. 61: 47-48, 1930.
- Young, Ohio Wkly. P.B. 16(2), 1931.
- †**Spraying—Apples**
- Adams, Peninsula Hort. Soc. Trans. 44: 98-110, 1930.
- Alden, Ga. St. Ent. B. 75: 15-16, 1931.
- Ball, Ont. Dept. Agr. Ont. Exp. Farm R. 58: 90, 1932.
- Barss et al., Oreg. B. 458, 1933, 7p.
- Braman, Mich. St. Hort. Soc. R. 60: 35-38, 1931.
- Burrell, Amer. Soc. Hort. Sci. P. 30: 87-94, 1933.
- Burrell, N.H. Hort. Soc. R. 23: 33-51, 1933.
- Burrell, Que. Pom. & Fr. Grow. Soc. R. 40: 75-84, 1933.
- Cory, Md. St. Hort. Soc. P. 34: 57-63, 1932.
- Drew, N.H. Hort. Soc. R. Meeting, Manchester, Dec. 8, 1932: 12-13.
- Dutton, Mich. St. Hort. Soc. R. 60: 30-35, 1931.
- Dutton, Amer. Pom. Soc. P. 50: 99-100, 1934.
- iEllis, Conn. (Storrs) Ext. C. 33, 1931, 6p.
- Farley, Peninsula Hort. Soc. Trans. 47: 69-74, 1933.
- Farnsworth, Ohio St. Hort. Soc. P. 66: 45-48, 1933.
- Gilmer, Mo. St. Hort. Soc. P. f. 1930/1932: 86-91.
- Ginsburg, N.J. Dept. Ent. R. f. 1929: 173-174, 1930.
- biGinsburg, J. Ec. Ent. 24: 283-290, '31.
- Godbout, Que. Pom. & Fr. Grow. Soc. R. 37: 51-65, 1930.
- Hamilton, N.J. Dept. Ent. R. f. 1929: 167-173, 1930.
- Hartzell, Conn. Pom. Soc. P. 44: 94-106, 1934.
- iHaseman, Mo. B. 334: 5-13, 1934.
- Headlee, N.J. St. Hort. Soc. P. f. 1931: 49-58.
- Headlee et al., N.J. C. 254, 1932, 8p.
- Headlee, N.J. Ext. B. 102, 1933, 6p.
- Headlee, Martin & Farley, N.J. Ext. B. 113, 1934, 6p.
- Hodgkiss, Penn. St. Hort. Assoc. P. 71: 91-99, 1930.
- Hodgkiss, Amer. Fr. Grow. 52(2): 5-6, 42, 1932.
- Howitt, Sci. Agr. 13: 256-259, 1932.
- Hurt, Va. St. Hort. Soc. P. 35: 88-99, '30.
- Judson, N.Y. St. Hort. Soc. P. 77: 213-216, 1932.
- biKelley, Ill. B. 348: 369-406, 1930.
- Kendall, N.H. B. 280: 17-18, 1934.
- Kirby, Peninsula Hort. Soc. Trans. 45: 145-152, 1931.
- Lavoie, Que. Dept. Agr. R. f. 1931/1932: 151-152.
- Lewis, Ohio Wkly. P.B. 16(13), 1931.
- Longley, Que. Soc. f. Prot. Pl. R. 22: 27-29, 1931.
- Lyman, N.H. Hort. Soc. R. 20: 56-58, 1931.
- McBirney, Ida. St. Hort. Assoc. P. 38: 111-112, 1933.
- iMarshall & Ford, Ind. B. 381, 1933, 18p.
- iMougeot, Que. Dept. Agr. R. f. 1932/1933: 114-115.
- iMumford, Ill. R. 43: 139-141, 1930.
- iNiswonger, N.C. Ext. C. 183, 1931, 10p.
- Overholser & Overley, Wash. B. 275: 42-43, 1932; B. 305: 44, 1934.
- iOverley & Spuler, Amer. Soc. Hort. Sci. P. 26: 343-347, 1930.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(12): 1-4, 1930; 2(11): 1931, 4p.
- Quaintance & Siegler, USDA FB 1270 rev.: 92-94, 1931; FB. 1666: 72-73, 1931.
- Richardson, Iowa R. f. 1934: 94-95.
- Rogers, N.H. Hort. Soc. R. 19: 82-83, 1930.
- iRollins, Conn. (Storrs) Ext. C. 33, 1931, 6p.
- Rollins, Conn. (Storrs) Ext. B. 163, 1932, 8p.
- Ross, Ent. Soc. Ont. R. 62: 56-57, '32.
- Russell, Ida. Dept. Agr. Bien. R. 6: 56, 1930.

†**Spraying—Apples** *Cont'd*

Sanderson, Ins. Pests Farm ed. 3: 386-388, 1931.

Shaw, N.H. Hort. Soc. R. 23: 54, 1933.

Sherwood, W.Va. Ext. Orch. Spray

Serv. Inf. Notice 3, 4, 5, 1933; 7, '34.

Steiner, Tenn. St. Hort. Soc. P. 29/30: 47-49, 1935.

Symons, Md. Ext. Inf. Cd. 25, 1930.

Talbert, Haseman & Swartwout, Mo. C. 177, 1934, 8p.

iThurston & Worthley, Penn. B. 311 1934, 15p.

iThurston et al., Penn. St. Hort. Assoc. P. 75: 67-75, 1934.

Worthley, Penn. St. Col. B. 258: 36, 1930.

Yocum, Neb. St. Hort. Soc. P. 61: 47-51, 1930.

Yocum, Neb. St. Bd. Agr. R. f. 1932: 617-621.

biYoung, J. Agr. Res. 49: 559-571, 1934.

Zappe, Conn. B. 315: 569-571, 1930.

Zappe & Stoddard, Conn. B. 360: 447-448, 1934.

Spraying—Avocado

Palmer, Cal. Avocado Assoc. YB f. 1932: 44-46.

Spraying—Beans

biFriend & Turner, Conn. B. 332: 94-101, 1931.

Mumford, Ill. R. 46: 156, 1933.

Spraying—Beets

iCook, USDA YB f. 1934: 332-334.

Spraying—Blackberries

biHanson, Wash. B. 279: 10-19, 1933.

Wilcox & Baker, W. Wash. Hort. Assoc. P. 25: 8-13, 1934.

Spraying—Cabbage

iSchmerhorn & Nissley, N.J. Ext. B. 74, 1930, 4p.

Spraying—Cattle

Bartlett, N.J. Agr. 15(3): 2-3, 1933.

iBriggs, Iowa Agr. 34: 36, 1933.

Dibble, Mich. Quar. B. 16: 243-244, 1934.

Eaton, Assoc. South. Agr. Workers P. 35: 270, 1934.

bFreeborn, Regan & Berry, J. Ec. Ent. 27: 382-388, 1934.

biGnadinger, Pyrethrum Flowers: 180-188, 1933.

Neal, Iowa Agr. 35: 31, 1934.

iRichardson, Iowa Dept. Agr. YB 32: 31-35, 1932.

biWilson, Pearson & Cannon, J. Dairy Sci. 16: 427-433, 1933.

Spraying—Cauliflower

Stoutamire, Fla. Dept. Agr. B. n.s. 44: 15-17, 1930.

Spraying—Cherries

Dutton, Mich. St. Hort. Soc. R. 60: 30-35, 1931.

Goss, Neb. St. Hort. Soc. R. f. 1931: 130.

Hanson, W. Wash. Hort. Assoc. P. 25: 46-47, 1934.

Talbert & Swartwout, Mo. B. 301: 13-14, 1931.

†**Spraying—Citrus**

Allison, Cal. Cit. 16: 415, 437, 481, '31.

Amer. Agr. Chem. Co. Rev. de Agr.

Cuba 13(6): 63-64, 1931.

iBorden, Cal. B. 579, 1934, 20p.

Brunner & Arango, Rev. de Agr. Cuba 14(2): 84-87, 1932.

iCooper, Fla. Grow. 40(6): 18-19, 1932.

DeBusk, Fla. Grow. 38(3): 12, 24, 1930.

English, J. Agr. Res. 41: 131-133, 1930.

iEnglish & Turnipseed, J. Ec. Ent. 26: 987-989, 1933.

Hayman, Fla. Grow. 42(10): 9, 1934.

Henricksen, P.R. B. 33: 27-30, 1930.

Johnstone, Cal. Cult. 76: 573, 1931.

Kime, Fla. St. Hort. Soc. P. 46: 91-95, 1933.

Longfield-Smith, Fla. Dept. Agr. Chem. Div. R. f. 1933/1934: 6-70.

Rhoads & DeBusk, Fla. B. 229, 1931, 213p.

iRohrbaugh, Cit. Leaves 13(7): 6-7, '33.

biRohrbaugh, Pl. Physiol. 9: 699, 1934.

iSmith, Tex. Cit. 7(5): 9-10, 36, 1930.

Smith, Cit. Leaves 12(1): 6-8, 25;

12(2): 5-6; 12(3): 13; 12(7): 12-14,

18, 20; 12(8): 8-9, 1932.

biSwain & Green, J. Ec. Ent. 26: 1021-1030, 1933.

Walker & Thomas, Fla. Grow. 40(6): 9-10, 23, 1932.

Watson & Berger, Fla. Ext. B. 67: 63-66, 1932.

Weldon, Pac. Rur. Press 120: 405, 1930.

- Woglum, Cal. Cit. 15: 489, 516, 1930;
17: 409, 1932.
- Woglum, Cal. Fr. Grow. Exch. B. 11,
1934. 29p.
- bWoglum & LaFollette, J. Ec. Ent. 27:
978-980, 1934.
- Yothers, Fla. St. Hort. Soc. P. 45: 111-
113, 1932.
- Yothers & Miller, Fla. St. Hort. Soc.
P. 46: 48-52, 1933.
- Spraying—Cost**
- Barton et al., N.J. St. Hort. Soc. P. f.
1930: 221-249, 1931.
- iBoyce, Diamond Walnut News 16(3):
12-13, 1934.
- Clark, N.J. St. Hort. Soc. P. f. 1930:
243-244, 1931.
- Cole, Diamond Walnut News 15(2): 11,
1933.
- iEllenwood, Amer. Fr. Grow. Mag.
53(4): 4, 14, 1933.
- Ellenwood, Ohio Hort. Soc. P. 65: 109-
114, 1932.
- Farley, Farm J. 54(3): 47, 73, 1930.
- Farnsworth, Ohio Hort. Soc. P. 63: 130,
1930.
- Gilmer, Mo. St. Hort. Soc. P. f.
1930/1932: 89-91.
- Hilbish, Midwest Fruitman 7(10): 6, 8,
10, 1934.
- Hilbish, Ohio Hort. Soc. P. 67: 83-89, '34.
- Hollister, Mich. St. Hort. Soc. R. 62:
33-35, 1933.
- Mckay, Farm J. 56(1): 23, 1932.
- iMackie & Haenggi, Cal. Agr. Mo. B.
22: 350, 1933.
- Magness, Md. St. Hort. Soc. R. 32:
167-168, 1930.
- Niswonger, South. Cult. 89(22): 11, 13
1932.
- Rasmussen, Amer. Soc. Hort. Sci. P.
30: 1-3, 1933.
- biRohrbaugh, Pl. Physiol. 9: 699-700, '34.
- Thurston & Worthley, Penn. B. 311: 5-
7, 1934.
- Wright, Diamond Walnut News 12(3):
7, 1930; 14(2): 5, 1932.
- Spraying—Cranberries**
- Crowley, Wash. B. 260: 66-68, 1931.
- Goldsworthy, Wis. Cranb. Grow. As-
soc. R. 46: 49-50, 1933; R. 48: 25-29,
1934.
- biWalden, Conn. B. 349: 426-427, 1933.
- Spraying—Currants & gooseberries**
- Ruggles & Stakman, Minn. Hort. 60:
82, 1932.
- Spraying—Dahlias**
- Finger, Flow. Grow. 20(5): 222, 1933.
- Spraying—Dairy stables**
- Bonnikson, Cal. Agr. Mo. B. 19: 352-
355, 1930.
- Spraying—Effect on biological control**
- Smith & Armitage, Cal. B. 509: 57-59,
1931.
- Spraying—Evergreens**
- Barnes, Hort. n.s. 11: 44, 1933.
- Chambers, Wis. Hort. 22: 208, 1932.
- Spraying—Experiments**
- iBoyce, Diamond Walnut News 13(3):
6-7, 1931.
- Curtiss, Iowa R. f. 1930: 32-33.
- Goucher, N.S. Dept. Agr. R. f. 1931:
126-128, 1932; R. f. 1932: 137-141,
1933.
- Hurt, Va. St. Hort. Soc. P. 34: 162-167,
1929.
- Martin, Ont. Dept. Agr. R. f. 1929: 49-
50, 1930.
- Rasmussen, N.H. Hort. Soc. R. 20:
139-142, 1931.
- Yocum, Neb. St. Bd. Agr. R. f. 1930:
475-479; R. f. 1932: 617-621.
- Yocum, Neb. St. Hort. Soc. P. 61: 47-
51, 1930; P. 62: 45-48, 1931.
- †Spraying—Fruit**
- iBorden, Cal. B. 579, 1934, 20p.
- Cochran, Kans. St. Hort. Soc. Bien. R.
42: 39-43, 1934.
- Davis, Purdue Univ. B. 32(7): 45-49,
1932.
- Dunlap et al., Ill. St. Hort. Soc. Trans.
64: 52-58, 1930.
- Dutton, Mich. St. Hort. Soc. R. 60: 30-
35, 1931.
- Farley, Peninsula Hort. Soc. Trans. 48:
132-136, 1934.
- Flint & Anderson, Ill. Hort. Soc. Trans.
67: 52-70, 1934.
- iGentner & Norris, Oreg. B. 321, 1933,
55p.
- bHurt, Va. B. 293, 1933, 16p.
- iMcWhorter et al., Oreg. Ext. B. 470: 1-
14, 1934.
- Mumford, Ill. R. 45: 141-142, 1932.

†**Spraying—Fruit Cont'd**

Nash, Gard. Club Amer. B. ser. 4, 14:
98-101, 1931.

Pelton, Tenn. Ext. Pub. 184, 1934, 8p.
Sherwood, W. Va. Ext., Orch. Spray
Serv. Inf. Notice 2, 1933.

iSymons, Md. Ext. C. 84, 1931, 32p.

iTalbert, Mo. Ext. C. 245, 1930, 16p.

Talbert & Swartwout, Mo. C. 296,
1932, 8p.

Urbahns, Cal. Agr. Mo. B. 20: 172-176,
1931.

†**Spraying—Gardens**

iBade, Pop. Sci. Month. 118(6): 123-
124, 1931.

Claiborne, Manual. of Gard.: 161, 1932.

Gould, Minn. Hort. 60: 136-138, 1932.

Stoutamire, Fla. Dept. Agr. B. n.s. 52:
59, 1931.

Spraying—Gladiolus

Arsenius, N. Eng. Glad. Soc. YB f.
1934: 90-92.

iDodge, J. N.Y. Bot. Gard. 32: 208-210,
1931.

Dustan, Ont. Hort. Soc. R. 26: 33, '31.

Spraying—Golf greens

Davey, Golfdom 4(11): 47, 1930.

Pettit, Mich. Ext. B. 125: 9-11, 1932.

Spraying—Grains bins, empty

McGovran, J. Ec. Ent. 26: 911, 1933.

Spraying—Grapes

Swartwout, Mo. Ext. C. 293, 1932, 4p.

Talbert & Swartwout, Mo. B. 301: 14-
15, 1931.

Williams, Peninsula Hort. Soc. Trans.
44: 135-139, 1930.

Woolsey, Ark. St. Hort. Soc. P. 50: 31-
35, 1930.

Spraying—Greenhouse

Hamilton, N.J. R. 52: 227, 1931.

Spraying—Hazard from power lines

iMackie, Cal. Agr. Mo. B. 21: 196-203,
1932.

Spraying—High altitudes

Stilson, Amer. Nut. J. 35: 36-37, 1931.

Spraying—Late, Importance of

Hough, Md. St. Hort. Soc. P. 36: 19-
20, 1934.

Spraying—Legislation

Adams, Fla. Grow. 40(5): 14, 1932.

Heartsill, Tex. Cit. 7(10): 10, 20, 23,
1931.

Petch, Que. Pom. & Fr. Grow. Soc. R.
36: 82-83, 1929.

Spraying—Lima beans

Brannon, Va. Truck B. 85: 1197-1201,
1934.

Spraying—Methods

iBingham Wis. Hort. 20: 131-132, '30.

Cardinell, Ind. Hort. Soc. Trans. 69:
13-20, 1930.

Metzger, J. Ec. Ent. 27: 292, 1934.

bParrott et al., J. Ec. Ent. 24: 297-302,
1931.

Porter, Neb. St. Bd. Agr. R. f. 1933:
584-594.

Spraying—Mills

Johnson, Nat. & Amer. Miller 62(3):
74, 1934.

Spraying—Night

Burkholder, Minn. Hort. 59: 82, 1931.

Potter et al., N.H. Ext. B. 47: 57, 1934.

Can. Hort. Fr. & Truck ed. 54: 104, '31.

Can. Hort. Fr. & Truck ed. 55: 229, '32.

Spraying—Nursery stock

Winter, Flor. Rev. 65(1686): 116, 1930.

Spraying—Nuts

iMcWhorter et al., Oreg. Ext. B. 470:
14-16, 1934.

Spraying—Onions

Clark, Wis. B. 425: 94-95, 1932.

Mumford, Ill. R. 46: 153-154, 1933.

Spraying—Oranges

A.E.B., Sci. Amer. 146: 105, 1932.

Miller, Basset & Yothers, Cit. Ind.
14(4): 8-9, 1933.

Miller et al., Cit. Ind. 14(3): 7, 22, '33.

biMiller et al., USDA TB 350, 1933, 20p.

Penny, Cal. Cult. 78: 563-578, 1932.

Penny, J. Ec. Ent. 25: 1002-1007, 1932.

Cit. Ind. 14(5): 22-23, (7): 17-18, 1933.

†**Spraying—Orchards**

Archibald, Can. Dept. Agr. Exp. Farms
R. f. 1929: 26-27, 1930.

iBaker, N.J. Ext. B. 95, 1932, 8p.

Braucher, Diamond Walnut News
16(2): 4, 8, 1934.

Brown, Ala. Ext. C. 138: 13-20, 1933.

Cooper, Ky. R. 45, pt. 1: 54, 1933.

Farnsworth, Ohio Hort. Soc. P. 67: 16-
18, 1934.

Fite, N.Mex. B. 209: 34-38, 1933.

Fletcher, Penn. St. Hort. Assoc. P. 74:
54-57, 1933.

- iGodbout & Coulson, Sci. Agr. 13: 249-255, 1932.
 Grove, Va. St. Hort. Soc. P. 38: 116-126, 1934.
 Hough, Conn. Pom. Soc. P. 40: 54-58, 1931.
 Huntington, Gard. Club Amer. B. ser. 4, 20: 111-112, 1932.
 iHutcheson, Va. Ext. B. 114, 1930, 35p.; Ext. B. 131, 1933, 31p.
 Liston, Kans. Ent. Comm. Bien. R. 12: 22-23, 1931.
 Lutken, S.C. Wkly. News Notes 19: 24, 1930.
 bMarshall, Que. Soc. Prot. Pl. R. 25/26: 125-134, 1934.
 iNichols, Iowa Ext. B. 181, 1932, 12p.
 Parrott, N.Y. Hort. Soc. P. 77: 25-36, 1932.
 Parrott et al., N.Y. St. Hort. Soc. P. 75: 248-301, 1931.
 Petch, Que. Pom. & Fr. Grow. Soc. R. 36: 82-83, 1929; R. 37: 34-35, 1930.
 Pickett, Kans. St. Hort. Soc. Bien. R. 40: 51-53, 1930.
 Pickett, Mo. St. Hort. Soc. P. f. 1928/1930: 95-97.
 Potter, N.Y. St. Hort. Soc. P. 78: 210-223, 1933.
 iPotter et al., N.H. Ext. B. 47: 49-52, '34.
 iRamsower, Ohio Ext. B. 128, 1932, 47p.
 iRicks & Toenjes, Mich. Sp. B. 230: 18-29, 1933.
 Rollins, Conn. Ext. B. 206, 1934, 8p.
 iRoss, Can. Dept. Agr. B. 129: 27-28, 38-52, 1930.
 Schneiderhan, Peninsula Hort. Soc. Trans. 44: 90-97, 1930.
 iSherwood, W.Va. Ext. C. 301, 1933, 30p.; Ext. C. 304, 1934, 30p.
 Stene, R.I. St. Col. B. 226: 17-18, 1930.
 Stoddard & Zappe, Conn. Pom. Soc. P. 40: 36-42, 1931.
 Talbert & Swartwout, Mo. Ext. C. 296, 1932, 8p.
 Turner, Conn. Pom. Soc. P. 39: 79-80, 1930.
 Turney, N.B. Dept. Agr. R. f. 1929: 99, 1930.
 Weaver, Penn. St. Hort. Assoc. P. 74: 56-63, 1933.
 Young, Ohio Wkly. P.B. 17(46), 1933.

Spraying—Papayas

Weber, Fla. Grow. 38(11): 34, 1930.

Spraying—Peaches

- Bailey, Mass. Ext. Leaf. 146: 14, 1933.
 Farley, Peninsula Hort. Soc. P. 47: 69-74, 1933.
 Fisher, Can. Hort. 53: 36, 1930.
 Hurt, Va. St. Hort. Soc. P. 35: 88-99, 1930; P. 36: 94-104, 1931.
 Marcovitch, Tenn. R. 43: 35-36, 1930; R. 45: 32, 1932.
 bMarcovitch et al., J. Ec. Ent. 24: 844-850, 1931.
 Parrott, N.Y. St. Hort. Soc. P. 77: 26-27, 1932.
 Sherwood, W.Va. Ext. Orch. Spray Serv. Inf. Notice 4, 1933.
 Symons, Md. Ext. Inf. Cd. 27, 1930; Cd. 28, 1930.

Spraying—Pears

- Barss et al., Oreg. Ext. B. 458, 1933, 7p.
 Dutton, Mich. St. Hort. Soc. R. 60: 30-35, 1931.
 Oreg. Ext. B. 458, 1933, 7p.

Spraying—Peas

- Hedrick, N.Y. (Gen.) R. 50: 59-60, '31.
 iLavoie, Que. Dept. Agr. R. f. 1931/1932: 153-154.

Spraying—Pecans

- Baker & Cole, Nat. Pecan Grow. Assoc. P. 31: 55-58, 1932.
 Bilsing, Nat. Pecan Grow. Assoc. P. 30: 55-57, 1931.
 Demaree, USDA FB 1672: 5, 1931.
 Demaree & Large, Southeast. Pecan Grow. Assoc. P. 28: 20-29, 1934.
 Moznette, Amer. Nut. J. 35: 36, 1931.
 Moznette, Southeast. Pecan Grow. Assoc. P. 28: 55-61, 1934.
 Moznette et al., USDA FB 1654: 58-59, 1931.
 Walker, Ala. R. f. 1933: 79.
 Walker, Ga. Fla. Pecan Grow. Assoc. P. 27: 31-33, 35, 1933.

Spraying—Plums

- iDrain & Roberts, Mass. Ext. Leaf. 100E, 1930, 2p.
 Ruggles & Stakman, Minn. Hort. 60: 82, 1932.
 Urbahns, Cal. Cult. 77: 488, 1931.

Spraying—Potatoes

- Barrus & Crosby, N.Y. (C.) Ext. B. 238: 17-23, 1932; Ext. B. 288: 12-18, 1934.
- iBlodgett et al., Amer. Potato J. 10: 79-88, 1933.
- biBonde, Maine B. 362: 177-232, 1932; B. 377: 338-348, 1934.
- Clayton, Amer. Potato J. 8: 177-179, 1931.
- Crosthwait, Peninsula Hort. Soc. Trans. 47: 77-78, 1933.
- biDaniels, Col. B. 400: 5-34, 1933.
- iDenniston & Hodgkiss, Penn. C. 137, 1931, 18p.
- iDonaldson et al., Mass. Ext. Leaf. 20 rev., 1933, 32p.
- Dye, Ont. Veg. Grow. Assoc. R. 28: 18-19, 1933.
- iGraney, N.Y. Dept. Agr. B. 276: 46-47, 1933.
- Huckett, Amer. Potato J. 7: 27-30, '30.
- Huckett, N.Y. (Gen.) C. 128: 3-7, '32.
- Jehle, Md. Ext. News 17(9): 4, 1933.
- Ladd, N.Y. (C.) R. 46: 112, 1933.
- MacLeod, N.H. Hort. Soc. R. 22: 77-84, 1932.
- MacLeod, N.Y. (C.) R. 46: 110, 112, 1933.
- Martin, N.J. R. 50: 255-256, 1929.
- Martin, Amer. Potato J. 7: 155-158, 1930.
- iMoore & Wheeler, Mich. Sp. B. 234, 1933, 23p.
- Mumford, Ill. R. 45: 141, 1932; R. 46: 154, 1933.
- Nixon, Ohio Veg. Grow. Assoc. P. 15: 138-139, 1930.
- Pieper, Burlison & Flint, Ill. B. 344: 279-283, 1930.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(8): 1-4, 1930.
- Porter, Tenn. Pl. Dis. Control B. 58: 17-18, 1931.
- Sherman, S.C. R. 44: 67-68, 1931.
- iStockdale, Ohio Veg. Grow. Assoc. P. 17: 100-103, 1932.
- Tilford, Ohio Veg. Grow. Assoc. P. 15: 116-119, 1930.
- Tilford, Amer. Potato J. 8: 145-150, 1931; 10: 140-141, 1933.
- Tilford, Ohio Wkly. P.B. 17(18), 1932.

Wolfenbarger, J. Ec. Ent. 25: 647-649, 1932; 27: 118-120, 1934.

Spraying—Pressure

- iBlodgett et al., Amer. Potato J. 10: 79-83, 1933.
- Ingerson, Amer. Pom. Soc. P. f. 1929-1930: 131-136.
- Ingerson, Iowa St. Hort. Soc. Trans. 65: 181-184, 1930.
- MacLeod, N.H. Hort. Soc. R. 22: 78-79, 1932.
- Martin, Amer. Potato J. 7: 155-158, 1930.
- Tilford, Amer. Potato J. 8: 145-150, 1931.

Spraying—Prunes

Urbahns, Cal. Cult. 77: 488, 1931.

Spraying—Quince

Garman, Conn. B. 349: 428-429, 1933.

Spraying—Raspberries

Clark, N.J. C. 304: 3-4, 1934.

Spraying—Results

- Cole, Diamond Walnut News 15(2): 11, 1933.
- Lavoie, Que. Dept. Agr. R. f. 1931-1932: 151-152.
- iRicks & Toenjes, Mich. Sp. B. 230, 1933, 32p.
- Wright, Diamond Walnut News 12(3): 7, 1930; 14(2): 5, 1932; 15(2): 9, '33.

Spraying—Shade trees

- Ellenwood, Ohio Hort. Soc. P. 63: 40-51, 1930.
- Felt, Bartlett Tree Res. Lab. Ed. B. 18: 28-35, 1930.
- Houser, Nat. Nurserym. 38(3): 6, 1930.
- Houser, Nat. Shade Tree Conf. P. 10: 6-11, 1934.
- Young, Nat. Shade Tree Conf. P. 7: 86-87, 1931.

Spraying—Small fruits

McCown, Ind. Ext. Leaf. 177: 4, 1933.

Spraying—Speed

Can. Hort. Fr. & Truck ed. 54: 174, '31.

Spraying—Spreaders and stickers, see Spray spreaders and stickers**Spraying—Squash**

- Fitch, Iowa St. Hort. Soc. Trans. 69: 290-292, 1934.
- Friend, N.H. Hort. Soc. R. Meet. Manchester Dec. 8, 1932: 68-69.

Spraying—Strawberries

Wakeman, Mich. St. Hort. Soc. R. 62:
5-6, 1933.

Spraying—Tomatoes

Dietz, Ohio Veg. Grow. Assoc. P. 15:
170-176, 1930.

Spraying—Truck crops

Weber, Fla. Grow. 39(11): 24, 1931.

Spraying—Vegetables

iAmstein, Ark. Ext. C. 330, 1934, 4p.
iBritton, Conn. Veg. Grow. Assoc. R.
17: 48-51, 1930; R. 18: 37-43, 1931.
iCaesar, Ont. Dept. Agr. B. 359, 1931,
67p.
iDustan, Can. Dept. Agr. B. n.s. 161,
1932, 74p.
Dye, Ont. Veg. Grow. Assoc. P. f. 1932:
20, 1933.
Mitchener, Manitoba Dept. Agr. C. 97,
1930, 8p.
Shropshire, J. Ec. Ent. 26: 675-676,
1933.

Spraying—Walnuts

Boyce, Diamond Walnut News 12(4):
7, 1930.
Braucher, Diamond Walnut News
16(2): 4, 8, 1934.
Wright, Diamond Walnut News 12(2):
7-8, 1930.

Spraying and dusting

iBoyd, Ga. St. Bd. Ent. B. 72, 1930, 50p.
Clarke, Ga. St. Bd. Ent. B. 75: 35-36,
1931.
Davis & Gardner, Ind. Ext. B. 176: 21,
1931.
Dietz, N.Y. (St.) Inst. Appl'd Agr. L.I.
1929: 29-31.
Duston, Can. Dept. Agr. Ent. B. 32:
12-13, 1932.
Friend, Conn. Veg. Grow. Assoc. P. 20:
70-71, 1933.
iHamilton, J. Ec. Ent. 25: 304-311, '32.
Metcalf, Ill. St. Hort. Soc. Trans. 64:
287-307, 1930.
Safro, Ohio Veg. Grow. Assoc. P. 15:
14-23, 1930.
Slate, Conn. B. 357: 124-125, 1934.
Snapp, USDA FB 1557 rev.: 7-9, 1931.
Snapp & Thomson, J. Ec. Ent. 24: 854-
860, 1931.
Talbert & Swartwout, Miss. Ext. C.
273, 1931, 24p.

Spraying and dusting—Apples

West, Maine Pom. Soc. R. f. 1932: 44.

Spraying and dusting—Cooperative

Cook, Rur. N.Y. 91: 614, 1932.
Flint, Amer. Agr. 129: 39, 1932.
Frei, Wis. Hort. 22: 130-131, 1932.
Iddings, Ida. B. 179: 29, 1931; B. 192:
31, 1932.

iNeel, South. Agr. 61(12): 3, 22, 1931.

Newcomer, Ida. St. Hort. Assoc. P. 35:
102-103, 1930.

Pomerene, Wis. Hort. 22: 10, 1931.

iRahmlow, Farm J. 55(1): 20-21, 1931.

Wakeland, Ida. B. 170: 21, 1930; B.
179: 12, 1931.

Spraying and dusting—Gladiolus

Dustan, Que. Soc. Prot. Pl. R. 23/24:
37-38, 1932.

Spraying and dusting—Onions

bDoran & Bourne, Mass. B. 279: 176-
185, 1931.

Spraying and dusting—Orchards

Snapp, Md. St. Hort. Soc. R. 32: 203-
206, 1930.

Spraying and dusting—Peaches

Clarke, Ga. St. Ent. B. 77: 28-29, 34,
1933.

Spraying and dusting—Peas

Jenkins, Oreg. St. Hort. Soc. R. 24: 49-
51, 1932.

Spraying and dusting—Pepper

Weber, Fla. B. 244: 46, 1932.

Spraying and dusting—Potato

iBarrus & Crosby, N.Y. (C.) Ext. B.
288: 20-22, 1934.

bBonde, Folsom & Torey, Maine B. 352:
97-140, 1929.

Coulson, J. Agr. & Hort. 34: 176-177,
1931.

Dean, Amer. Potato J. 8: 96-100, 1931.

Donaldson, Mass. Ext. Leaf. 20 rev.:
17-21, 1933.

Ford et al., N.H. Ext. B. 45: 22, 1934.
Gratz, Fla. B. 222, 1930, 39p.

Huckett, N.Y. (Gen.) B. 592: 3-38, '31.

MacLeod, N.H. Hort. Soc. R. 22: 81-
82, 1932.

Menusan & Dickison, J. Ec. Ent. 27:
112-117, 1934.

Simpson, J. Ec. Ent. 25: 634-639, 1932.

Woodward & Waller, N.J. Agr. Exp.
Sta. 1880-1930: 237, 1932.

Spraying and dusting—Small fruits

Jones & Hanson, Wash. Ext. B. 180:
1-2, 1933.

Spraying and irrigation

Overley, Northw. Fr. Grow. 3(11): 5,
14, 1931.

Spraying and weather

Godbout, Que. Pom. & Fr. Grow. Soc.
R. 37: 56-65, 1930.
Tex. Cit. 6(11): 24, 1930.

†Spraying apparatus

iAnderson, Amer. Fr. Grow. Mag. 50(2):
7, 30, 1930.

Ballou, Ohio Wkly. P.B. 18(1), 1933.

Ballou, Ohio Hort. Soc. P. 67: 109-118,
1934.

iBorden & Hensill, J. Ec. Ent. 27: 834-
841, 1934.

iBoyce, Diamond Walnut News 15(2):
3-4, 1933.

Braucher, Diamond Walnut News
16(2): 4, 8, 1934.

iBurdette & Headlee, N.J. C. 311: 16-
18, 1934.

Burgess, J. Ec. Ent. 23: 132-136, 1930.

iBurkholder, Minn. Hort. 59: 79-80,
82, 1931.

Caesar, Ont. Dept. Agr. B. 356: 4-6,
1930.

Caesar, Ont. Dept. Agr. B. 359: 5-6,
1931.

iCooper, South. Agr. 61(6): 24, 1931.

Davis, Ind. Ext. B. 186: 5, 1932.

Drinkard, Va. Poly. Inst. R. f. 1927/
1931: 35.

Farnsworth, Ohio St. Hort. Soc. P. 64:
132-138, 1931.

iGilbert & Popenoe, USDA FB 1371
rev.: 44-45, 1930; rev.: 43-45, 1934.

iHolt, Can. Hort. Fr. & Truck ed. 56:
31, 1933.

Hough, Amer. Fr. Grow. Mag. 50(3):
6, 26, 1930.

Hough, Mass. Fr. Grow. Assoc. R. 36:
108-117, 1930.

Hough, Conn. Pom. Soc. P. 40: 55-58,
1931.

Huckett, N.Y. (Gen.) TB 592: 10-12,
1931; C. 128: 4-5, 1932.

Ingerson, Amer. Nut. J. 35: 37, 1931.

Kimball, Diamond Walnut News 15(4):
5, 1933.

Kime, Cit. Ind. 14(6): 19, 23, 1933.

Kirby, Peninsula Hort. Soc. Trans. f.
1931: 147.

Mackie, Cal. B. 24: 407-409, 1930.

iMaheux, Que. Min. de l'Agr. B. 118:
42-47, 1933.

iMetcalf & Flint, Fund. of Ins. Life:
417, 431, 1932.

Mex. Agr. & Fomento. Principales
Plagas: 279-280, 1930.

iMunro & Riddle, N.Dak. C. 42 rev.: 9-
10, 1933.

Newcomer, USDA FB 1326 rev.: 11-12,
1931.

Pickett, Kans. St. Hort. Soc. Bien. R.
40: 48-51, 1930.

Pickett & Filing, Kans. C. 169: 20-
21, 1932.

iPotter et al., N.H. Ext. B. 47: 52-57,
1934.

Quaintance & Siegler, USDA FB 1270
rev.: 95-96, 1931.

iRamsower, Ohio Ext. B. 128: 35-39,
1932.

Rasmussen, Amer. Soc. Hort. Sci. P.
30: 1-3, 1933.

iRicks & Toenjes, Mich. Sp. B. 230: 12-
15, 1933.

Rogers, N.H. Hort. Soc. R. 19: 82-83,
1930.

iSherwood, W.Va. Ext. C. 305: 39-41,
1934.

Snapp, USDA FB 1557 rev.: 38-39, '31.

Van Leeuwen, USDA C. 237: 6-7, '32.

Spraying apparatus—Accessories

Quaintance & Siegler, USDA FB 1666:
52-58, 1931.

iStarcher, Mich. Quar. B. 13: 147-152,
1931.

Starcher, Can. Hort. Fr. & Truck ed.
55: 25-26, 1932.

Spraying apparatus—Aeroplane

iHerbert, J. Ec. Ent. 26: 1052-1056, '33.
iPop. Sci. Month. 124(4): 21, 1934.

Spraying apparatus—Agitator equipment

iBorden, J. Ec. Ent. 26: 1106-1108, '33.

iBorden, Pac. Rur. Press 125: 91, 1933.

biFrost, Agr. Engin. 12: 265-266, 1931.

iSmith, Cal. Cult. 78: 565-577, 1932.

Spraying apparatus—Air-blast type

Snapp & Thomson, J. Ec. Ent. 26: 726,
1932.

- Spraying apparatus—Air pressure extension brush**
iCollins, USDA C. 204, 1931, 8p.
- Spraying apparatus—Applying small quantities**
iMetzger, J. Ec. Ent. 24: 754-757, 1931.
- Spraying apparatus—Care**
Beach, Ohio Farm. 165: 596, 1930.
Fairbank, Pac. Rur. Press 120: 401, '30.
iHeimpel, Can. Hort. Fr. & Truck ed. 55: 21-22, 1932.
Prather, Tenn. St. Hort. Soc. P. 26: 17-18, 1931.
Can. Hort. Fr. & Truck ed. 53: 238, '30.
Hoosier, Hort. 13: 135, 1931.
- Spraying apparatus—Cattle**
Marlatt, USDA Ent. R. f. 1933: 43.
- Spraying apparatus—Combined with irrigation plant**
Weinberger, Amer. Fr. Grow. Mag. 52(2): 6-7, 27, 1932.
- Spraying apparatus—Compressed air**
Cocks, Conn. (Storrs) Ext. B. 185: 8, 1933.
- Spraying apparatus—Hand machine**
iGlasgow & Cook, N.Y. Dept. Agr. & Markets B. 240: 79-83, 1930.
Judson, N.Y. St. Hort. Soc. P. 77: 213-216, 1932.
- Spraying apparatus—High pressure**
Ingerson, Amer. Pom. 1(2): 4-6, 1931.
Kime, Fla. St. Hort. Soc. P. 46: 91-95, 1933.
- Spraying apparatus—History**
iBingham, Wis. Hort. 20: 131-132, '30.
iNiles, Amer. Fr. Grow. Mag. 50(1): 6, 1930.
- Spraying apparatus—Home made**
iOhio Farm. 172: 178, 1933.
- Spraying apparatus—Hopper bait spreader**
Mabee, Mont. Farm. 21(20): 7, 1934.
- Spraying apparatus—Hose carry-over**
Ellenwood, Rur. N.Y. 89: 580, 1930.
- Spraying apparatus—Injury from**
Blodgett et al., Amer. Potato J. 10: 86-88, 1933.
Brown, Amer. Potato J. 10: 205-207, 1933.
- Spraying apparatus—Installations**
Abildgaard, Penn. St. Hort. Assoc. News 8: 29-33, 1931.
- Spraying apparatus—Large operations**
Quaintance & Siegler, USDA FB 1666: 47-50, 1931.
- Spraying apparatus—Manufacturers**
Can. Hort. Fr. & Truck ed. 55: 27, '32.
- Spraying apparatus—Nicofumer**
iSmith, Meyer & Persing, J. Ec. Ent. 27: 1192-1195, 1934.
- Spraying apparatus—Nozzle**
iNixon, Agr. Engin. 14: 335-336, 1933.
iStockdale, Ohio Veg. Grow. Assoc. P. 17: 100-103, 1932.
Walters, Ohio Veg. Assoc. P. 19: 139-144, 1934.
- Spraying apparatus—Oil—Fog spray**
Currie, Pac. Rur. Press 126: 518, 1933.
- Spraying apparatus—Oil liberator**
iWetmore, Mil. Surg. 66: 574-576, '30.
- Spraying apparatus—Orchard**
iBoyce, Diamond Walnut News 14(3): 15-17, 1932.
Craze, Can. Hort. Fr. ed. 57: 28, 1934.
iHooper, Diamond Walnut News 15(4): 7, 1933.
- Spraying apparatus—Park sprayer**
iAmer. City 42(6): 203, 1930.
- Spraying apparatus—Pecan**
Demaree, USDA FB 1672: 24-25, 1931.
Dieffenbach, Nat. Pecan Grow. Assoc. P. 32: 35-40, 1933.
- Spraying apparatus—Portable**
Richardson, Better Fruit 25(12): 12, 1931.
- Spraying apparatus—Power**
iBritton & Ashworth, Conn. B. 349: 401, 1933.
biFrost, Agr. Engin. 12: 265-266, 1931.
Musselman, Mich. St. Hort. Soc. R. 63: 66-68, 1934.
- Spraying apparatus—Proper use**
Pickett, Kans. St. Hort. Soc. Bien. R. 40: 48-51, 1930.
Swartwout, Mo. St. Hort. Soc. P. f. 1928-1930: 90-95.
- Spraying apparatus—Regulator**
iPettit, Mich. Ext. B. 125: 10, 1932.
iSnapp & Thomson, J. Ec. Ent. 27: 832-843, 1934.
- Spraying apparatus—Semi-stationary**
iClark, Tex. Cit. 7(2): 28, 1930.
- Spraying apparatus—Spray boom**
iDaniels, Col. B. 400: 6-7, 1933.

Spraying apparatus—Spray gun

iMackie & Haenggi, Cal. Agr. Mo. B. 22: 350, 1933.

Potter et al., N.H. Ext. B. 47: 54-55, 1934.

Schneiderhan, W.Va. B. 239: 27-28, 1931.

Spraying apparatus—Spray pumps

Potter et al., N.H. Ext. B. 47: 52-54, 1934.

†Spraying apparatus—Stationary

Abildgaard, Fruits & Gardens 28(3): 4, 12-13, 1930.

Abildgaard, Ind. Hort. Soc. Trans. 69: 54-59, 1930.

iAbildgaard, Neb. St. Hort. Soc. P. 61: 82-87, 1930.

Abildgaard, Neb. St. Bd. Agr. R. f. 1930: 510-516.

Abildgaard, Ohio Hort. Soc. P. 63: 103-112, 1930.

Abildgaard, Mich. St. Hort. Soc. R. 60: 38-41, 1931.

Chase, Agr. Engin. 13: 213, 1932.

Coffing et al., Ind. Hort. Soc. Trans. 69: 143-146, 1930.

Cornell, W.Va. Univ. B. 239, 1931, 28p.

iCornell, Agr. Engin. 14: 79-80, 1933.

Fromme, W.Va. B. 263: 22-23, 1934.

iHarrold & Lacy, Ga. Univ. St. Col. Agr. B. 429, 1933, 28p.

Hegges, Tenn. St. Hort. Soc. P. 26: 38-39, 1931.

Heimpel, Que. Pom. & Fr. Grow. Soc. R. 39: 81-90, 1932.

Ingerson, Iowa St. Hort. Soc. Trans. 65: 297-300, 1930.

iLacy, Agr. Engin. 13: 19-20, 1932.

Lewis, Ind. Hort. Soc. Trans. 69: 131-143, 1930.

Lewis, Kans. St. Hort. Soc. Bien. R. 40: 53-61, 1930.

Lewis, Mo. St. Hort. Soc. P.f. 1928-1930: 97-113.

iMumford, Ill. R. 43: 217-219, 1930.

Mumford, Ill. R. 44: 217-218, 1931.

Quaintance & Siegler, USDA FB 1666: 51, 1931.

iRichardson, La Hacienda 26: 260-261, 1931.

Skinner, Penn. St. Hort. Assoc. P. 71: 208-209, 1930; P. 72: 40-42, 1931.

Weinberger, Penn. St. Hort. Assoc. P. 73: 59-63, 1932.

Spraying apparatus—Stationary vs. portable

Burkholder, Ind. C. 172: 11-12, 1930.

Greene et al., Ind. C. 203: 12, 1934.

Reed, Ind. C. 183: 15, 1931.

Spraying apparatus—Tanks

Potter et al., N.H. Ext. B. 47: 56-57, '34.

Spraying apparatus—Tank agitation

Borden, Tex. Cit. 9(12): 14, 1933.

iBorden, Cal. Agr. Mo. B. 23: 132-135, 1934.

Woglum, Cal. Fr. Grow. Exch. B. 8: 23, 1931.

Spraying apparatus—Ten row, truck mounted

iAmer. Fr. Grow. Mag. 51(3): 27, 1931.

Spraying apparatus—Tests

iFrench, Agr. Engin. 15: 324-326, 329, 1934.

Spraying apparatus—Tower

iBoyce, Pac. Rur. Press 125: 89, 94, '33.

Boyce & Maxwell, Diamond Walnut News 15(1): 7, 1933.

iLong et al., Diamond Walnut News 15(1): 8, 1933.

Spraying apparatus—Tractor

iGlasgow & Cook, N.Y. Dept. Agr. B. 240: 79-83, 1930.

Spraying apparatus—Vapo dust

Parker, J. Ec. Ent. 27: 1036-1040, '34.

Spraying apparatus—Vaporizer

Breuer, Soap 9(7): 88-89, 1933.

Spraying vs. dusting

Ballou & Lewis, Ohio B. 527, 1933, 17p.

Ballou & Lewis, Ohio Hort. Soc. P. 67: 66-83, 1934.

iBurkholder, Ind. B. 356: 1-28, 1931.

Stone et al., Fla. B. 251: 11-12, 1932.

Talbert & Swartwout, Mo. B. 301: 12-13, 1931.

Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 236, 1932.

Spraying vs. dusting—Orchards

Braunton, Cal. Cult. 74: 620-621, 1930.

Rapp, Iowa St. Hort. Soc. Trans. 68: 56-59, 1933.

Spraying vs. dusting—Potatoes

MacLeod, Can. Dom. Expt. Farms.

Seas. Hints, East & B.C. ed. 52: 10-11, 1931.

Spraying vs. dusting—Tests

Ballou & Lewis, *Midwest Fruitman*
8(1): 8, 1934.

Spraying vs. dusting—Vegetables

Dustan, *Can. Dept. Agr. B. n.s.* 161:
12-13, 1932.

Spraying vs. fumigating—Orchards

Braunton, *Cal. Cult.* 76: 574, 1931.

Sprays

Robinson, *Oreg. B.* 259, 1930, 26p.
Talbert, *Amer. Fr. Grow. Mag.* 50(2):
14-15, 29, 1930.

Sprays—Colored

Nat. Nurserym. 38(6): 16, 1930.

Sprays—Combination

Childs, *Oreg. St. Hort. Soc. R.* 23: 57-
63, 1932.
Essig & Hoskins, *Cal. Ext. C.* 87: 140-
144, 1934.

Sprays—Chemical

Hutchison, *Cal. R. f.* 1931-1932: 62-63,
1933.

Sprays—Contact

Matthews, *Nat. Nurserym.* 42(8): 5,
1934.

Sprays—Effect on bees

iHerman & Brittain, *Can. Dept. Agr.*
B. n.s. 162: 158-198, 1933.
Webster & Crews, *Better Fruit* 29(4):
8-9, 1934.
Wright, *Gard. Club Amer. B. ser.* 4,
13: 94-95, 1931.

Sprays—High dilution, clean fruit

iBallou & Lewis, *Amer. Fr. Grow. Mag.*
51(2): 12, 28, 1931.

Sprays—Household

bRichardson, *Indus. & Engin. Chem.* 24:
1394-1397, 1932.

Sprays—Influence on air temperature

biRosen, *Phytopath.* 23: 912-916, 1933.

Sprays—Loss of strength

Watson, *Fla. Grow.* 38(5): 34, 1930.

Sprays—Pink and pre-pink—Apple

Ellis, *Conn. Ext. C.* 33, 1931.

Sprays—Preparation and use

Robinson, *Oreg. B.* 259, 1930, 26p.

Sprays—Special

Pierstorff & Parks, *Ohio Pl. Dis. & Ins.*
Notes 2 (12): 3-4, 1931.

Sprays—Summer

Brown, *Ala. Ext. C.* 138: 17-18, 1933.
iCooper, *Fla. Grow.* 40(6): 18-19, 1932.

Dye, *Que. Pom. & Fr. Grow. Soc. R. f.*
1930: 18-25.

Dye, *Ont. Fr. Grow. Assoc. R.* 62: 22,
1931.

Hedrick, *N.Y. (Gen.) R.* 51: 55, 1932.

Quaintance & Siegler, *USDA FB* 1666:
5, 72-73, 1931.

Sprays—Surface oil films

biSwain & Green, *J. Ec. Ent.* 26: 1023-
1030, 1933.

Sprays—Time of application

Barnard, *Pac. Rur. Press* 121: 497, '31.
iBorden, *Pac. Rur. Press* 119: 353, 1930;
122: 414, 1931.

iChase, *Northw. Fr. Grow.* 3(2): 5, 9,
1931; 4(6): 6, 11; 4(7): 4-5, 14, 18,
1932.

Cushing, *Ohio Hort. Soc. P.* 67: 14-15,
1934.

Deaver, *Cal. Cult.* 74: 618, 1930.

iEnglish & Turnipseed, *J. Ec. Ent.* 26:
987-989, 1933.

Goldie, *Can. Hort. Fr. & Truck ed.* 55:
94, 1932.

Hedrick, *N.Y. (Gen.) R.* 50: 33, 1931.
Hodgkiss, *Penn. St. Hort. Assoc. P.* 73:
32-34, 1932.

Hough, *Md. St. Hort. Soc. P.* 36: 19-
20, 1934.

Kirby, *Peninsula Hort. Soc. Trans. f.*
1931: 148.

iSpuler, *Northw. Fr. Grow.* 2(35): 7, 12,
1930.

Willard, *Ohio Bi-Mo. B.* 146: 161, 1930.

Sprays—Toxicity

bLiming, *Phytopath.* 23: 155-174, 1933.

Sprays and dusts—Contact

Quaintance & Siegler, *USDA FB* 1666:
11-16, 1931.

Sprays and dusts—Fall and winter in greenhouse

Ohio Wkly. P.B. 15(31), 1930.

Sprays and dusts—Oil

iMumford, *Ill. R.* 46: 147-149, 1933.

Sprays and dusts—Preparation and mixing

Holt, *Ill. St. Hort. Soc. Trans.* 66: 69-
78, 1932.

Sprays and dusts—Potatoes

Ford et al, *N.H. Ext. B.* 45: 19-22, '34.
Wheeler & Moore, *Mich. Quar. B.*
12(3): 92-94, 1930.

Ssprays for flies

- Badertscher, Soap 9(8): 85, 1933.
 C., J. Franklin Inst. 218: 40, 1934.
 Cannon & Richardson, Iowa Agr. Res.
 R. f. 1931: 32.

Freeborn & Regan, J. Ec. Ent. 25: 167-
 174, 1932.

bGnadinger & Corl, J. Ec. Ent. 25:
 1237-1240, 1932.

McDonnell, USDA Off. Rec. 9(30): 8,
 1930.

iMatheson, N.Y. (C.) Ext. News 13:
 39-40, 1930.

bMelvin, J. Ec. Ent. 25: 1151-1164, '32.

Miller, Hoard's Dairym. 76: 518, 1931.

iPearson et al., J. Ec. Ent. 26: 269-274,
 1933.

Richardson, Iowa YB Agr. 32: 33, '31.

Ssprays for flies—Bases

Soap 8(5): 119, 1932.

Ssprays for flies—Home made

Hoard's Dairym. 77: 298, 1932.

Maritime Farm. 37(20): 19, 1932.

Ssprays for flies—Ingredients

Chem. Ind. 34: 518, 1934.

Ssprays for flies—Perfumes

Stoddard, Oil, Paint & Drug Reporter
 117(25): 66-66A, 1930.

Stoddard, Soap 5(10): 104-105, 107,
 1930.

Ssprays for ornamentals

Newton, Can. Hort. 55: 171, 1932.

Spread of insects, see Insects—Spread

*Spring cankerworm, see *Paleacrita vernata* (Peck)Springtails, see *Collembola* spp.*Spruce budworm, see *Cacoecia fumiferana* (Clem.)Spruce epizeuxis, see *Epizeuxis aemula*Spruce gall aphid, see *Adelges abietis*

Spruce insects

Balch, Simpson & Prebble, Ent. Soc.
 Ont. R. 64: 57-59, 1933.

Macdonald, N.Y. Conserv. Dept. R.
 20: 189, 1930.

Spruce mite, see *Paratetranychus ununguis*Spruce needle miner, see *Taniva albolineana*Spruce pineapple gall aphid, see *Adelges abietis**Spruce sawfly, see *Neodiprion abietis*Spruce tortrix, see *Taniva albolineana*

Squamulotilla trituberculata, tumidula

nMickel, Ann. Ent. Soc. Amer. 26: 384-
 388, 1933.

*Square-necked grain beetle, see *Silvanus gemellatus* Duv.*Squash beetle, see *Epilachna borealis* (F.)*Squash borer, see *Melittia satyriniformis**Squash bug, see *Anasa tristis* (Deg.)Squash capsid, see *Pycnoderes quadrimaculatus* Guer.

Squash insects

Caffrey, Md. Agr. Soc. R. 19: 277, 1934.

Mumford, Ill. R. 46: 155, 1933.

iWilkinson, Conn. (Storrs) Ext. B. 196:
 31-32, 1933.

Squash vine borer, see *Melittia satyriniformis**Stablefly, see *Stomoxys calcitrans* (L.)Stable rat mite, see *Eulaelaps stabularis*Stachia, *S. minuta*

inFolsom, Hawaiian Ent. Soc. P. 8: 55-
 56, 1932.

Stagnomantis carolina (Johan.) (Carolina mantis)*

Guthrie, Science n.s. 78: 146, 1933.

Leverault, Ann. Ent. Soc. Amer. 27:
 313-314, 1934.

Snodgrass, Smithsonian. Sci. Ser. 5: 73-
 76, 1930.

*Stalk borer, see *Papaipema nebris nitela*Stalk girdler, see *Crambus caliginosellus*

Stamoderes uniformis

Borden, Cal. Agr. Mo. B. 19: 572, 1930.

Hutchison, Cal. R. f. 1930-31: 68, 1932.

Staphylinidae

Cameron, Conn. Acad. Arts & Sci.
 Mem. 10: 17-21, 1934.

Fletcher, Can. Ent. 62: 190, 1930.

Guenther, tr. by Miall, Naturalist in
 Brazil: 307-308, 1931.

Staphylinus fulvomaculatus

Smyth, J. Kans. Ent. Soc. 7: 107, '34.

Staphylinus macgregori

nCooper, Can. Ent. 65: 264-265, 1933.

Staphylinus olens

iPeña, La Hacienda 25: 74, 1930.

Staphylinus incanus, inconstans, similis

inBell, Bklyn. Ent. Soc. B. 27: 133-136, '32.

Stauroderus scalaris

Cory, Amer. Nat. 67: 62-63, 1933.

biCory, J. Morph. 55: 313-347, 1933.

- *Steel-blue ladybeetle, *see* *Orcus chalybeus* (Bdv.)
- Steganacarus diaphanum, granulatus, histricinum, thoreau*
 binJacot, Bost. Soc. Nat. Hist. P. 39: 236-241, 1930.
- Stegasta*—Key
 Forbes, N.Y. Acad. Sci. Sci. Surv. P. R. 12: 128, 1930.
- Stegobium paniceum* (Drug store weevil)*
 iBack & Cotton, USDA FB 1260, rev.: 36-37, 1930.
 McDaniel, Mich. Quar. B. 16: 169, '34.
- Stegobium paniceum*—Fumigation
 Farrand, Lib. J. 57: 389, 1932.
- Stegobium paniceum*—Hot air
 Pop. Sci. Month. 122(1): 53, 1933
- Stegomyia*, *see* *Aedes*
- Stegophylla quercicola*
 iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 885-886, 1931.
- Stegothrips, S. barronis*
 inHood, P. Ent. Soc. Wash. 36: 111-114, 1934.
- Steiroxys*
 Hebard, Trans. Amer. Ent. Soc. 60: 54, 1934.
- Steiroxys hendersoni*, *see* *Steiroxys pallidipalpus*
- Steiroxys pallidipalpus*
 biLockwood, Cal. Agr. Mo. B. 22: 321, 1933.
 Sweet, Cath. World 131: 716-717, '30.
 inFulton, Ann. Ent. Soc. Amer. 23: 627-630, 1930.
- Stelis bivittatum, portoi*
 Schwarz, Amer. Mus. Nov. 650: 1-4, 1933.
- Stenamma fovocephala*
 nSmith, Ann. Ent. Soc. Amer. 23: 564-565, 1930.
 Smith, Ent. News 42: 17-18, 1931.
- Stenares frazeri*
 nBanks, Psyche 38: 58-59, 1931.
- Stenaspis perticalis*
 Smyth, J. Kans. Ent. Soc. 7: 117, 1934.
- Stenelmis blatchleyi*
 Musgrave, P. Ent. Soc. Wash. 35: 57, '33.
- Stenochthera regalis, triornata*
 nCresson, Ent. News 42: 170, 1931.
- Stenocrepis (Stenous) subdepressus*
 nDarlington, Psyche 41: 101-102, 1934.

- Stenodontes bituberculatus*
 Smyth, J. Kans. Ent. Soc. 7: 116-117, 1934.
- Stenomema algidella*
 Frost, Penn. St. Col. B. 258: 36, 1930.
 bFrost, J. Ec. Ent. 24: 1208-1213, 1931.
 Wis. Hort. 22: 132, 1932.
- Stenomicro angustata*
 Williams, Hawaiian Ent. Soc. P. 8: 223, 1933.
- Stenommatius musae*
 Swezey, Hawaiian Ent. Soc. P. 8: 239, 1933.
- Stenonema spp.*
 Ide, Can. Ent. 62: 230, 1930.
 inMcDunnough, Can. Ent. 65: 16-24, 33-43, 1933.
 nTraver, Elisha Mitchell Sci. Soc. J. 48: 155-157, 173-178, 181-186, 192-197, 201-204, 1933.
 Traver, J. N.Y. Ent. Soc. 41: 113-115, 1933.
- Stenopelmatae*
 Rehn, Trans. Amer. Ent. Soc. 56: 363-373, 1930.
- Stenopelmatus*
 biCrampton, Pan-Pac. Ent. 6: 97-110, 1930.
 Lutz, Amer. Mus. Nov. 550: 21-24, '32.
- Stenopelmatus fasciatus*, *see* *Stenopelmatus fuscus*
- Stenopelmatus fuscus* Hald. (Jerusalem cricket)*
 iHenderson, Utah C. 96: 34-35, 1931.
 bSmith, Cal. Univ. Pub. Zool. 33: 57-68, 1929: 33: 445-447, 1930.
 iWoodward, Travel 62(2): 36, 1933.
- Stenopelmatus intermedius*
 Smith, Cal. Univ. Pub. Zool. 33: 445-447, 1930.
- Stenopelmatus longispina*
 Buckell, B.C. Ent. Soc. P. 27: 46-47, 1930.
- Stenopelmatus pictus*
 bSmith, Cal. Univ. Pub. Zool. 33: 445-447, 1930.
- Stenopelmatus sumichrasti*
 Hebard, Trans. Amer. Ent. Soc. 58: 343, 1932.
- Stenophlebia latreillei*
 biCarpenter, Carnegie Mus. Ann. 21: 106-107, 1932.

- Stenopodessa, S. piligera**
nBarber, Ent. Amer. n.s. 10: 203-205, 1930.
- Stenopodinae**
iBarber, Ent. Amer. n.s. 10: 149-192, 1930.
- Stenopodius flavidus texanus**
nSchaeffer, Pan-Pac. Ent. 9: 106, 1933.
- Stenopogon spp.**
nBromley, Ann. Ent. Soc. Amer. 24: 429-432, 1931.
- Stenopsyche grahami, siamensis**
inMartynov, PUSNM 79(25): 4-7, 1931.
- Stenopterina marginata**
Malloch, PUSNM 78(15): 17, 1931.
- Stenoptilia coloradensis**
Braun, Can. Ent. 62: 122-123, 1930.
- Stenoptilia vitis**
bClausen, USDA C. 168: 34, 1931.
- Stenosphenus basicornis**
nLinsley, Pan-Pac. Ent. 10: 60, 1934.
- Stenotrupis filum**
Swezey, Hawaiian Ent. Soc. P. 8: 235, 1933; P. 8: 375, 1934.
- Stenus pykaranus**
nCameron, Conn. Acad. Arts & Sci. Mem. 10: 18-19, 1934.
- Stenus retrusus**
Frost, Bklyn. Ent. Soc. B. 25: 53, 1930.
- Stephanitis ambigua**
bClausen, USDA C. 168: 26, 1931.
- Stephanitis pyrioides (Azalia lace fly)**
Oelschig, Ga. St. Hort. Soc. P. 54: 65, 1930.
biSoraci, N.J. Dept. Agr. C. 243: 50-51, 1934.
White, J. Ec. Ent. 26: 631, 1933.
- Stephanitis rhododendri Horv. (Rhododendron lacebug)***
Britton, Conn. B. 344: 156, 1933.
Mattoon, Hort. n.s. 10: 193, 1932.
biSoraci, N.J. Dept. Agr. C. 243: 49-50, 1934.
- Stephanoderes coffeae**
biMex. Agr. & Fomento. Principales Plagas: 157-158, 1930.
- Stephanoderes hampei**
Howard, Hist. of Appl'd Ent.: 360, '30.
- Stephanoderus georgiae**
Knull, Ent. News 45: 212, 1934.
- Stephanopachys cribratus**
Knull, Ent. News 45: 209, 1934.
- Stephanopholis lopezi**
inChapin, J. Wash. Acad. Sci. 21: 309-310, 1931.
- Stephanothrips graminis**
inFaure, Bklyn. Ent. Soc. B. 28: 73-75, 1933.
- Stephansia cunilae**
nBraun, Trans. Amer. Ent. Soc. 56: 9-10, 1930.
- Sterictiphora apios**
inRoss, P. Ent. Soc. Wash. 35: 13-15, '33.
- Sterilization—Alfalfa meal**
Hamlin, Cent. West. Shippers Advisory Bd. P. 20: 61-66, 1930.
- Sterilization—Bulbs**
iDearing & Griffiths, N.S. Dept. Agr. B. Jan. 1930: 47-52.
Dustan, Que. Soc. Prot. Pl. R. 23/24: 35-36, 1932.
Mex. Agr. & Fomento. Principales Plagas: 267-272, 1930.
iNewton, Hastings & Bosher, Can. J. Res. 9(1): 31-36, 1933.
iSein, P. R. Univ. J. Agr. 18: 411-416, 1934.
- Sterilization—Citrus**
iHawkins, Tex. Cit. 9(1): 7-8, 21-22; 9(2): 18-19, 1932.
Hawkins, Dunlap & Strong, Rev. de Agr. Cuba 12(6): 16-22, 1930.
- Sternochetus mangiferae (F.) (Mango weevil)*—Quarantine**
Hyde, USDA Off. Rec. 11: 165, 1932.
Strong, USDA PQCA SRA 111: 37, '32.
- Sternochetus mangiferae and temperature**
bMcBride & Mason, J. Ec. Ent. 27: 902-907, 1934.
- Sternodontis**
Graenicher, Ent. News 42: 229, 1931.
- Sternopsylla texanus**
ilskey, U.S. Pub. Health R. 47: 2197-2200, 1932.
- Stethomyia lewisi**
inShannon, P. Ent. Soc. Wash. 33: 154-155, 1931.
- Stethomyia nimba**
biShannon & Davis, Ann. Ent. Soc. Amer. 23: 473-480, 1930.
- Stethophyma lineatum**
Buckell, B.C. Ent. Soc. P. 27: 32-33, 1930.

- Stethorhanis borealis**
inBlaisdell, Trans. Amer. Ent.: Soc. 60: 325-326, 1934.
- Stethorhanis vandykei**
inBlaisdell, Trans. Amer. Ent. Soc. 56: 381-382, 1930.
- Stethorus picipes**
biQuayle, Cal. B. 542: 17, 1932.
- Stethorus vagans**
Essig, Hist. of Ent.: 292, 373, 1931.
- Stibaropus molginus (Root stink bug)**
Holloway, Facts about Sugar 26: 448, 1931.
- Stichopogon colei**
nBromley, Ann. Ent. Soc. Amer. 27: 90, 1934.
- Stictia carolina**
Cartwright, Ent. News 42: 269-270, '31.
- Stictocephala festina (Say) (Three-corn-nered alfalfa hopper)***
Duggar, Ala. Poly. R. 40: 26, 1929.
biEwing & McGarr, J. Ec. Ent. 26: 943-953, 1933.
Illingworth, Hawaiian Ent. Soc. P. 7: 359, 1931.
Watson, Fla. B. 232: 27-28, 1931.
- Stictocephala inermis**
Burkett, Tex. Dept. Agr. B. 111: 209, 1932.
iNewcomer, USDA C. 270: 25-27, 1933.
iYothers, Northw. Fr. Grow. 6(6): 4, 10, 1934.
biYothers, USDA TB 402: 2-19, 37, '34.
- Stictopelta caerulea, pulchella**
nBall, P. Biol. Soc. Wash. 46: 28-29, '33.
- Stigmaeus floridanus**
Godfrey, Pineapple News 4(2): 29-32, 1930.
Pineapple News 4(11/12): 157, 1930.
- Stigmatium mucronatum**
nWolcott, Psyche 39: 43-44, 1932.
- Stilbometopa impressa, ramphastionis**
inFerris, Can. Ent. 62: 63-66, 1930.
- Stilbosis lonchocarpella**
nBusck, Ent. Amer. n.s. 13: 157-158, 1933.
- Stilbosis phaeoptera**
inForbes, P.R. Dept. Agr. J. 15: 361, '31.
inForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 361, 1931.
- Stilbula cynipiformis**
iParker, Ent. News 43: 1-6, 1932.
- Stilpnochlora coulouiana**
Hood & Hinch, Bklyn. Ent. Soc. B. 26: 20, 1931.
- Stilpnolia salicis (L.) (Satin moth)***
Bailey, Vt. Com. Agr. Bien. R. 15: 32-33, 1930; R. 17: 74, 1934.
Balch, For. Chron. 7: 65-66, 1931.
Balch, N.S. Dept. Lands & For. R. f. 1933: 27-28, 1934.
Balch, Pulp & Paper Mag. of Can. 35: 679-680, 1934.
iBeard, Amer. Boys' Bk. Bugs: 325-330, 1932.
iBritton, Conn. B. 327: 547-548, 1931; B. 344: 149-150, 1933; B. 349: 415-416, 1933; B. 360: 474-476, 1934.
iBurgess, Cal. Agr. Mo. B. 19: 265-266, 1930.
iCollins, USDA C. 189: 1931, 12p.
Gilliatt, Ent. Soc. Ont. R. 61: 13, 1931.
iGlendenning, Can. Dept. Agr. Pam. n.s. 50, 1929, 15p.
Keenan, Ent. Soc. Ont. R. 61: 73-74, 1931.
Lyne, Cal. Dept. Agr. Sp. Pub. 115: 152, 1932.
Lyne, Cal. Agr. Mo. B. 23: 232, 1934.
O'Kane, N.H. Agr. R. f. 1931-32: 116.
iPeirson, Field Book of Destruct. For. Ina., ed. 2: 9, 1932.
Slate, Conn. B. 322: 123, 1931.
Strong, USDA PQCA R. f. 1930: 19; R. f. 1931: 16; R. f. 1933: 7.
Twinn, Que. Soc. Prot. Pl. R. 23/24: 159, 1932.
Twinn, Ent. Soc. Ont. R. 64: 76, 1933; R. 65: 125, 1934.
Weir, Can. Min. Agr. R. f. 1932: 173.
- Stilpnolia salicis—Parasites**
biBrown, USDA C. 176, 1931, 20p.
Glendenning, B.C. Ent. Soc. P. 28: 31, 1931.
Proper, J. Agr. Res. 43: 39, 1931.
bSchaffner, Ann. Ent. Soc. Amer. 27: 585-592, 1934.
- Stilpnolia salicis—Quarantine**
iBritton, Conn. C. 72: 57-58, 1930; C. 78: 51-54, 1931; C. 85: 37-38, 1932.
Fleury, Cal. Agr. Mo. B. 23: 487, 1934.
Hoyt, USDA BPQ R. f. 1934: 7.
Strong, USDA PQCA R. f. 1930: 19; R. f. 1931: 16; R. f. 1932: 6.

Stilpnotia salicis—Quarantine Cont'd

iStrong, USDA PQCA SRA 109: 153-159, 1932.

Strong, USDA PQ R. f. 1933: 7.

USDA Off. Rec. 10: 52, 360, 1931.

USDA PQCA Q. 53: 1931, 7p.

Stilpnotia salicis—Spread

iBritton, Conn. B. 315: 605-606, 1930;
B. 338: 565-567, 1932; B. 349: 415-416, 1933.

McLaine & Glendenning, Ent. Soc. Ont. R. 60: 70-73, 1930.

Stingless bee, see Trigona pallida**Stings of insects, see Insects—Stings****Stink bugs, see Pentatomidae****Stirellus**

iThomas, J. Kans. Ent. Soc. 6: 126-133, 1933.

Stirellus beameri

nBall, Bklyn. Ent. Soc. B. 28: 226-227, 1933.

Stirellus convexus, dixianus

inThomas, J. Kans. Ent. Soc. 6: 130-133, 1933.

Stiretrus anchorago, caeruleus

Plummer & Landis, Ann. Ent. Soc. Amer. 25: 701-704, 1932.

Stizocera aliena, laceyi

nLinsley, Psyche 41: 234-235, 1934.

Stizocera vanzwaluwenburgi

nFisher, PUSNM 80(22): 46-48, 1932.

Stoiba spp.

inBlake, Bklyn. Ent. Soc. B. 25: 218-222, 1930; B. 29: 54-56, 1934.

Stolidosoma permutans

iVan Duzee, BAMNH 61: 174, 1931.

Stomacoccus platani (Sycamore scale) (Plane tree scale)

Burke, Cal. Agr. Mo. B. 21: 363, 1932.

Burke, Nat. Shade Tree Conf. P. 9: 63, 1933.

Mackie, Cal. Agr. Mo. B. 19: 551-552, 1930.

Stomaphis

Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 879, 1931.

Stomatodexia diadema

bScaramuzza, Asoc. Tecn. Azucar. Cuba P. 7: 61-64, 1933.

Stomopteryx adversa

nBraun, Trans. Amer. Ent. Soc. 56: 7-8, 1930.

Stomorhina spp.

nCurran, Amer. Mus. Nov. 506: 15-19, 1931.

Stomoxys calcitrans (L.) (Stablefly)*

Bishopp, USDA FB 734 rev. 1930, 14p.

Bishopp, USDA YB f. 1931: 325-326.

iBrittain, J. Agr. & Hort. 36: 25, 1932.

Caler, J. Kans. Ent. Soc. 4: 88-93, '31.

H.L.C., Amer. Agr. 129(26): 9, 1932.

iKnowlton & Rowe, Utah Leaf. 40, 1934, 3p.

McDaniels, Mich. C. B. 144: 10-11, '32.

biMatheson, Med. Ent.: 328-333, 1932.

Melvin, Ann. Ent. Soc. Amer. 24: 436-438, 1931.

Metcalf, Ill. St. Acad. Sci. Trans. 23: 270, 1931.

biMetcalf, N.Y. St. Mus. B. 289: 29-34, '32.

biMetcalf & Sanderson, N.Y. St. Mus. C. 5, 1931, 38p.

biMex. Agr. & Fomento. Principales Plagas: 243-244, 1930.

Nettles, J. Ec. Ent. 27: 1197-1198, '34.

iPearson et al., J. Ec. Ent. 26: 269-274, 1933.

iRichardson, Iowa YB Agr. 32: 31-32, 1931.

iRiley & Johannsen, Med. Ent.: 349-356, 1932.

Sanderson, Ins. Pests Farm, ed. 3: 501-502, 1931.

Siler, Panama Canal Health Dept. R. f. 1930: 73-77, 1931.

Snodgrass, Smithsonian. Sci. Ser. 5: 348, 1930.

Van Es & Olney, Neb. B. 290: 103, '34.

Van Volkenberg, P.R. (Mayaguez) R. f. 1931: 25, 1932.

iHoard's Dairyman 75: 559, 594, 1930; 77: 289, 298, 1932.

Stomoxys calcitrans—Parasites

Vandenberg, Guam R. f. 1930/1932: 22, 1933.

Stomoxys calcitrans and disease

Cecil, Text-Book of Med. ed. 3: 510, '34.

bHoskins, J. Parasit. 20: 299-311, 1934.

bMartin, J. Amer. Vet. Med. Assoc. 76: 227-228, 1930.

Ormsby, Pract. Treat. Dis. Skin ed. 4 rev.: 421, 1934.

Sanborn, Stiles & Moe, Okla. R. f. 1930/1932: 248-250.

Stomoxys sp.

Bartlett, N.J. Agr. 15(3): 2-3, 1933.

iDoane, Common Pests: 22-28, 1931.

biMatheson, Med. Ent.: 328-344, 1932.

Stomoxys spp. and disease

Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.

bSchwardt, Ann. Ent. Soc. Amer. 25: 603-611, 1932.

Stoneflies, see Plecoptera**Stored fur insects**

Aspinwall, Tech. Assoc. Fur. Ind. J. 3(1): 6-13, 1932.

Collins, Tech. Assoc. Fur. Ind. J. 3(2): 39-48, 1932.

†Stored grain insects

iBack & Cotton, USDA FB 1260 rev., 1930, 46p.; FB 1483 rev., 1931, 34p.

Betten, N.Y. (C.) R. 45: 121, 1932.

Britton, Conn. B. 327: 471-472, 1931.

Caesar & Ross, Ent. Soc. Ont. R. 63: 20, 1932.

Christie, Ont. Agr. Coll. & Exp. Farm R. 59: 105, 1934.

Davis, Purdue Univ. B. 32(7): 45, 1932.

Flint, J. Ec. Ent. 24: 425-427, 1931.

Flint & Mohr, Ill. B. 359: 377-388, '30.

Fulton, N.C. R. 55: 41-42, 1932.

iGrossman, Fla. TB 239, 1931, 24p.

iHorsfall, Nat. & Amer. Miller 62(3): 40-41, 1934.

Kennedy, Ont. Agr. Coll. & Exp. Farm R. 58: 138, 1932.

Leighty, USDA FB 885 rev.: 9, 1931.

Marlatt, USDA Ent. R. f. 1931: 69-70; R. f. 1932: 28-29.

Mayo, Fla. Dept. Agr. Quar. B. 40(1): 92-93, 1930.

Mumford, Ill. R. 45: 132, 1932.

Richardson, Iowa Agr. Res. R. f. 1932: 58.

Sanderson, Ins. Pests Farm ed. 3: 104-163, 478-489, 1931.

Shepard, Grain and Feed J. Cons. 73: 511, 1934.

Skinner & Coleman, Ind. Ext. R. 21: 46, 1932.

bStirrett & Arnott, Ent. Soc. Ont. R. 63: 50-54, 1932.

Stirrett & Arnott, Sci. Agr. 13: 405, '33.

biStrickland, Alberta Ext. B. 24, 1933, 58p.

Strong, USDA Ent. R. f. 1934: 19

Twinn, Ent. Soc. Ont. R. 64: 78-80, 1933.

Stored grain insects—Carbon bisulphide

iFlint, Ill. C. 380, 1931, 4p.

S.C. Wkly. News Notes 19: 14, 1930.

Wallaces' Farmer 69(47): 6, 1931.

Stored grain insects—Fumigants—Toxicity

Herrick & Griswold, N.Y. (C.) R. 44 (Pt. 2): 48-49, 1931.

Mann, N.Y. (C.) R. 43(Pt. 2): 43, 1931.

Stored peas insects

Market Grow. J. 52: 136, 1933.

Stored products insects

iBriggs, Northwest. Miller 180 Sect. 2: 48-49, 1934.

Bruner & Arango, Cuba Santiago de las Vegas C. 73, 1931, 6p.

Gleason, Nat. & Amer. Miller 59(7): 15, 31, 1931.

Gray, Ent. Soc. Ont. R. 65: 66-68, '33.

Gray, Que. Soc. Prot. Pl. R. 25/26: 47-51, 1934.

Hadjinicolaou, J. N.Y. Ent. Soc. 39: 145-150, 1931.

Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 208, 1930.

Mackie, Cal. Agr. Mo. B. 21: 311-315, 1932.

iMcDaniel, Mich. Quar. B. 16: 167-173, 1934.

Marlatt, USDA Ent. R. f. 1930: 54-62; R. f. 1931: 69; R. f. 1932: 26-30;

R. f. 1933: 34.

Metcalf & Flint, Fund. of Ins. Life: 35-37, 1932.

iParks & Jones, Ohio Ext. B. 97 rev.: 2-7, 1933.

bRoark, Food Ind. 3: 398-399, 1931.

Ross & Caesar, Ent. Soc. Ont. R. 62: 14, 1932.

Simmons & Reed, Cal. St. Fig. Grow. Inst. P. 13: 8-9, 1930.

Smith, Ohio B. 473: 36-40, 1931.

iStiner, Food Ind. 6: 258-260, 316-317, 338, 460-461, 482, 1934.

bStracener, J. Ec. Ent. 27: 768-771, '34.

Strong, USDA Ent. R. f. 1934: 19-20.

Weir, Can. Min. Agr. R. f. 1932: 179; R. f. 1933/1934: 61.

Wildman, Science n.s. 75: 268-269, '32.

Stored products insects—Fumigation

iBugbee, Compressed Air Mag. 35: 3260-3264, 1930.

iGooch, Food Ind. 5: 16-19, 1933.

Kenyon, Cal. Cult. 77: 501, 1931.

iStiner, Food Ind. 6: 160-162, 1934.

iBarrel & Box & Pack. 36(3): 16-17, '31.

Strangalia acuminata

Knull, Ent. News 45: 210, 1934.

Strategus ajax

Chapin, J. Wash. Acad. Sci. 22: 454, '32

Strategus barbigerus, laterispinus

nMorrison, J. Wash. Acad. Sci. 22: 454-456, 1932.

Strategus quadrioveatus (Rhinoceros beetle)

Leonard, P.R. Ins. R. f. 1929-30: 116-117, 1931.

Leonard, P.R. Dept. Agr. J. 16: 127, 1932.

Ramos, P.R. Dept. Agr. & Com. Inf. An. Span. ed. f. 1934/1935: 285.

biWolcott, Ec. Ent. of West Indies: 373-377, 1933.

Strategus simson

Robinson, J. Wash. Acad. Sci. 22: 449-456, 1932.

Strategus titanus (Rhinoceros beetle)

Holloway, Facts about Sugar 26: 446, 1931.

Wolcott, Ec. Ent. of West Indies: 123-125, 1933.

Stratiomyia—Respiration

biKuster, Mich. Acad. Sci. 19: 605-657, 1933.

Stratiomyia melanostoma

Herrick, Rur. N.Y. 90: 483-484, 1931.

Stratiomyidae

Curran, BAMNH 58: 167-172, 1929.

James, Amer. Mus. Nov. 571, 1932, 7p.

James, J. Kans. Ent. Soc. 6: 66-71, '33.

Stratiomys spp.

inJames, Amer. Mus. Nov. 571: 1-7, '32.

nJames, J. Kans. Ent. Soc. 6: 66-69, '33.

Straussia longipennis (Wied.) (Sunflower maggot)*

Britton, Conn. B. 327: 574, 1931; B. 344: 167, 1933.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 56, 1934.

Hutson, Mich. R. 47: 216-217, 1934.

Mumford, Ill. R. 46: 143, 1933.

*Straw itch mite, *see* *Pediculoides ventricosus* Newp.

*Strawberry aphid, *see* *Capitophorus fragaefolii* (Ckll.)

*Strawberry crown borer, *see* *Tyloderma fragariae* (Riley)

Strawberry crown miner, *see* *Aristotelia fragariae*

*Strawberry crown moth, *see* *Conopia rutilans* (Hy. Edw.)

Strawberry eelworm, *see* *Aphelenchoides fragariae*

Strawberry flea beetle, *see* *Altica ignita*

*Strawberry fruitworm, *see* *Cnephasia longana* (Haw.)

Strawberry insects

Agate, Rev. de Agr. Cuba 14(17): 33-34, 1933.

Baker, Wash. St. Hort. Soc. P. 26: 209-212, 1930.

[Brewster], South. Cult. 90(4): 16, '32.

Brooks, Fla. B. 235: 11, 1931.

Brooks, Watson & Mowry, Fla. Coop. Ext. B. 63: 42-51, 1932.

Crosby, Rankin & Mills, N.Y. (C.) Ext. B. 306: 12-16, 1934.

iDarrow, USDA FB 1027 rev.: 22-23, 1933.

Dean, Kans. St. Hort. Soc. Bien. R. 40: 142-147, 1930; R. 42: 137-143, '34.

Doucette & Baker, J. Ec. Ent. 25: 417-418, 1932.

Dustan & Matthewman, Ent. Soc. Ont. R. 62: 34-37, 1932.

iEssig & Hoskins, Cal. Ext. C. 87: 81-84, 1934.

Ewing & Smith, P. Ent. Soc. Wash. 36: 267-268, 1934.

iFarmer, Rur. N.Y. 90: 245, 1931.

Fisher, P. Ent. Soc. Wash. 32: 149-152, 1930.

Friend, Conn. Veg. Grow. Assoc. R. 20: 67-68, 1933.

iGranovsky, Minn. Hort. 59: 61, 1931.

Haseman, Mo. B. 340: 49-50, '34.

Haseman & Johnson, Mo. B. 310: 32, 1932.

Hedrick, N.Y. (Gen.) R. 53: 50-51, '34.

High, J. Ec. Ent. 26: 911-912, 1933.

Hutson, J. Ec. Ent. 25: 1107, 1932.

Mackie, Cal. Agr. Mo. B. 23: 340, 1934.

Mote, Better Fruit 28(11): 7, 1934.

- Mote & Dimmick, Oreg. C. Inf. 96, 1934, 2p.
- Price & Eddy, Ky. St. Hort. Soc. Trans. 77: 116-121, 1932.
- iRichard, Que. Min. de l'Agr. B. 132: 29-32, 1934.
- iSanderson, Ins. Pests Farm, ed. 3: 433-438, 1931.
- Wakeman, Mich. St. Hort. Soc. R. 62: 5-6, 1933.
- Watson, Fla. Grow. 38(12): 26, 1930.
- Whitehouse et al., Md. R. 43: 214-215, 1930.
- biWilcox, Mote & Childs, Oreg. B. 330, 1934, 109p.
- Maine Pom. Soc. R. f. 1931: 20-22.
- Strawberry iris worm, *see* *Cnephasia longana*
- Strawberry leaf beetle, *see* *Timarcha* sp.
- *Strawberry leaf roller, *see* *Ancyliis compactana* (Froel.)
- *Strawberry root aphid, *see* *Aphis forbesi*
- *Strawberry root weevil, *see* *Brachyrhinus ovatus* (L.)
- Strawberry root worm, *see* *Paria canella*
- *Strawberry weevil, *see* *Anthonomus signatus* (Say)
- *Strawberry whitefly, *see* *Trialeurodes packardii* (Morrill)
- Strepsiptera
- bRobertson, Bklyn. Ent. Soc. B. 25: 96-97, 1930.
- Strepterothrips, *S. conradi*
- nHood, J. N.Y. Ent. Soc. 41: 431-434, 1933.
- Stretchia plusiiformis
- Hoerner, Rocky Mt. Conf. Ent. R. 9: 16, 1932.
- Striate leafhopper, *see* *Laericephalus striatus*
- Stridulation, *see* Insects—Sonification
- Strigoderma arboricola
- iSim, USDA C. 334: 4-5, 1934.
- Strigodermella oklahomensis
- nHatch, Univ. Okla. Biol. Surv. Pub. 2: 24-25, 1930.
- *Striped blister beetle, *see* *Epicauta vittata* F.
- Striped cabbage flea beetle, *see* *Phyllotreta vittata*
- *Striped cucumber beetle, *see* *Diabrotica vittata* (F.)
- *Striped cutworm, *see* *Euxoa tessellata*
- *Striped flea beetle, *see* *Phyllotreta vittata* (F.)
- Striped hairstreak, *see* *Strymon liparops strigosa*
- *Striped horsefly, *see* *Tabanus lineola* F.
- Striped sedge-locust, *see* *Stethophyma lineatum*
- Strongylium auratum
- Smyth, J. Kans. Ent. Soc. 7: 112-113, 1934.
- Strongylogaster annulosus cingulescens
- Ross, Can. Ent. 64: 250, 1932.
- Strongyloneura congensis, cupreithorax, varians
- nCurran, Amer. Mus. Nov. 506: 1-3, 1931.
- Strophopteryx cucullata
- inFrison, Can. Ent. 66: 29-30, 1934.
- Strumigenys spp.
- iHaug, Ann. Ent. Soc. Amer. 25: 170-172, 1932.
- iKennedy & Schramm, Ann. Ent. Soc. Amer. 26: 98-102, 1933.
- biSmith, Ann. Ent. Soc. Amer. 24: 686-706, 1931.
- inWeber, Psyche 41: 63-65, 1934.
- nWheeler, Bernice P. Bishop Mus. B. 98: 160, 1932.
- Williams, Hawaiian Ent. Soc. P. 7: 365, 1931.
- Williams, Hawaiian Ent. Soc. P. 8: 230-231, 1933.
- Strymon
- Bell et al., Ent. News 45: 160, 1934.
- Strymon melinus Hbn. (Cotton-square borer)*
- iFolsom, USDA FB 1688: 16, 1932.
- Strymon spp.
- iComstock & Dammers, So. Cal. Acad. Sci. B. 32: 105-107, 1933; B. 33: 79-81, 137-138, 1934.
- O'Byrne, Ent. News 45: 212-213, 1934.
- iSaunders, N.Y. St. Mus. Hdbk. 13: 198-203, 1932.
- Stulothrips, *S. trespassus*
- nMoulton, Hawaiian Ent. Soc. P. 8: 499-500, 1934.
- Sturmia inconspicua
- Collins, Mass. Comm. Conserv. St. For. R. f. 1932: 28.
- iWebber, J. Agr. Res. 45: 193-208, 1932.

- Sturmia nidicola**
biProper, J. Agr. Res. 48: 371-372, 1934.
- Sturmia soutellata**
iBritton & Ashworth, Conn. B. 349: 407, 1933.
Collins & Jones, USDA YB f. 1932: 237.
biProper, J. Agr. Res. 48: 372-373, 1934.
Schaffner, Ann. Ent. Soc. Amer. 27: 588, 1934.
Wooldridge, J. Ec. Ent. 24: 775, 1931.
- Stylogaster spp.**
nAldrich, PUSNM 78(9), 1930, 27p.
- Styloribates, S. pectinatus**
inJacot, Bernice P. Bishop Mus. B. 121: 61-64, 1934.
- Styloterme washingtonensis**
inSnyder, Ann. Ent. Soc. Amer. 24: 317, 1931.
- Stylurodoria, S. stylata**
nTownsend, J. N.Y. Ent. Soc. 40: 476, 1932.
- Styphon, S. bakeri**
nRehn, Trans. Amer. Ent. Soc. 56: 62-67, 1930.
- Subra alternans**
Swezey, Hawaiian Ent. Soc. P. 7: 484, 1931.
- Subterranean insects, see Soil infesting insects**
- *Suckfly, see Dicyphus minimus Uhl.**
- Sucking dog louse, see Linognathus pili-ferus**
- *Sucking horse louse, see Haematopinus asini (L.)**
- Sucking insects**
Burke, Cal. Agr. Mo. B. 21: 363-365, 1932.
Cory & Langford, Md. Ext. B. 68: 6-8, 1933.
Huckett, J. Ec. Ent. 23: 169-174, 1930.
iKing & Cook, USDA TB 296, 1932. 12p.
Snodgrass, P. Ent. Soc. Wash. 36: 264, 1934.
- Sucking lice, see Anoplura**
- Sugar beet crown borer, see Hulstia undulata**
- Sugar beet insects**
Annand et al, USDA C. 244, 1932, 24p.
iBall, J. Ec. Ent. 27: 945-959, 1934.
bClausen, USDA C. 168: 64-67, 1931.
Cal. Agr. Mo. B. 21: 220, 1932.
- Sugar-beet leafhopper, see Eutettix tenellus**
- *Sugar-beet root aphid, see Pemphigus betae Doane**
- *Sugar-beet wireworm, see Limonius californicus (Mann.)**
- Sugar cane aphid, see Aphis sacchari**
- *Sugarcane beetle, see Eutheola rugiceps**
- *Sugarcane borer, see Diatraea saccharalis**
- Sugarcane insects**
Barreto, Assoc. Tecn. Azucar. Cuba. P. 5: 132-134, 1931.
Bruner, Rev. de Agr. Cuba 13 (8 sup.): 72-73, 1932.
Buchanan, Ann. Ent. Soc. Amer. 25: 328-336, 1932.
- bClausen, USDA C. 168: 53-55, 1931.**
Colon, Rev. Agr. P.R. 24: 271, 1930.
Colon, P.R. Dept. Agr. & Com. Inf. An. Span. Ed. f. 1931/1932: 89.
Dominguez, Internat. Soc. Sugar Cane Tech. Cong. 4, [P. Pt. 1]: 41-42, 1932.
Drake, Pan-Pac. Ent. 7: 15, 1930.
Essig, J. Ec. Ent. 26: 307, 1933.
- bFolsom, J. Ec. Ent. 26: 935, 1933.**
Hinds, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 21, [P. Pt. 2] 1932. 4p.
Hinds, Osterberger & Dugas, J. Ec. Ent. 27: 788-795, 1934.
Holloway, Facts about Sugar 25: 663-665, 744-746, 829-831, 1930; 26: 69-71, 209-211, 302-304, 445-448, 1931; 27: 354-356, 1932; 28: 216-219, '33.
Holloway, Sugar B. 12 (6): 3-4, 1933.
Ingram, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 85, [P. Pt. 2] 1932, 3p.
Ingram, Sugar B. 12(12): 5, 1934.
Kuntz, P.R. Ins. C. 98: 14-15, 1932.
- bLeonard, Rev. Agr. P.R. 25: 62-63, 93-94, 1930.**
Leonard, P.R. Ins. R. 1929/1930: 112, 115-116, 1931.
Loftin, Assoc. Tecn. Azucar. Cuba P. 4: 52-58, 1930.
Lopez, Hawaiian Ent. Soc. P. 7: 345, '31.
Lopez, Facts about Sugar, 27: 179, '32.
Marlatt, USDA Ent. R. f. 1933: 16.
Matsumura, Pac. Sci. Cong. 4, P. 4: 139-142, 1930.
Myers, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 22, [P. Pt. 2] 1932, 3p.

- biOcfemis, Amer. J. Bot. 21: 113-120, 1934.
- Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 47-49, 1932.
- Pemberton, Facts about Sugar 27: 484-485, 1932.
- Pemberton, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 4, [P. Pt. 2] 1932, 1p.
- Pemberton, Hawaiian Sugar Pl. Assoc. R. f. 1934: 24.
- Pierce, P. Ent. Soc. Wash. 32: 99-104, 1930.
- Pierce, J. N.Y. Ent. Soc. 39: 577-586, 1931.
- Rosenfeld, Sugar B. 9(22): 6-8, 1931.
- Sein, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 91, [P. Pt. 2] 1932, 2p.
- Spencer & Stracener, J. Ec. Ent. 23: 680-684, 1930.
- Swezey, Hawaiian Sugar Pl. Assoc. P. 50: 124, 1931.
- iSwezey, Mid-Pacific Mag. 42: 325-327, 1931.
- Van Dine & Christenson, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 116, [P. Pt. 2] 1932, 3p.
- biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 1931, 400p.
- biWolcott, Ec. Ent. of West Indies: 101-132, 1933.
- Sugarcane insects—Biological control—Hawaii**
- Swezey & Williams, Pan-Pac. Res. Inst. J. 6(3): 2-6, 1931.
- bSwezey & Williams, Hawaiian Ent. Soc. P. 8: 141-152, 1932.
- Sugarcane insects—Quarantine**
- Holloway & Rands, J. Ec. Ent. 25: 461-470, 1932.
- Pemberton, Assoc. Hawaiian Sugar Tech. R. 13: 3-11, 1934.
- Facts about Sugar 25: 162, 1930.
- *Sugarcane leafhopper, *see* *Perkinsiella saccharicida* Kirk.
- *Sugarcane leaf roller, *see* *Omiodes accepta* (Butl.)
- Sugarcane mealybug, *see* *Pseudococcus boninsis*
- Sugarcane nematodes**
- Holloway, Facts about Sugar 27: 64-65, 1932.
- Sugarcane pink mealybug, *see* *Trionymus sacchari*
- Sugarcane root caterpillar, *see* *Perforadix sacchari*.
- Sugarcane rootstock weevils, *see* *Anacetrinus subnudus*
- Sugarcane scale, *see* *Targionia sacchari*
- Sugar fish, *see* *Lepisma saccharalis*
- Sugar louse, *see* *Lepisma saccharalis*
- *Sugar maple borer, *see* *Glycobius speciosus* (Say)
- Suhpalacsa reducta**
- nBanks, Psyche 38: 63-64, 1931.
- Suleima baracana—Washington**
- Clarke, Can. Ent. 66: 179-180, 1934.
- Sundablatta**
- nHebard, P. Acad. Nat. Sci. Phila. 81: 76-77, 1929.
- *Sunflower beetle, *see* *Zygogramma exclamationis* (F.)
- Sunflower insects**
- Haseman, Mo. B. 285: 73, 1930.
- *Sunflower maggot, *see* *Straussia longipennis* (Wied.)
- Sunflower weevil, *see* *Desmoris fulvus*.
- Superb plant bug, *see* *Adelphocoris superbus*
- *Surinam roach, *see* *Pycnoscelus surinamensis* (L.)
- Susana**
- nRohwer & Middleton, P. Ent. Soc. Wash. 34: 93-95, 1932.
- Susana cupressi**
- Burke, Nat. Shade Tree Conf. P. 9: 55, 1933.
- Hyslop, J. Ec. Ent. 27: 565, 1934.
- inRohwer & Middleton, P. Ent. Soc. Wash. 34: 94, 1932.
- Sututo, *see* Dermatobia hominis**
- *Swallow bug, *see* *Oeciacus vicarius* Horv.
- Swallowtails, *see* *Papilionidae*
- Sweet clover insects**
- Stewart, J. N.Y. Ent. Soc. 38: 43-46, 1930.
- Sweet pea insects**
- Beal, N.Y. (C.) Ext. B. 213: 28-29, '31.
- Thomas, Penn. B. 293: 21, 1933.
- Sweet potato beetles, *see* *Chrysomelidae*
- *Sweetpotato flea beetle, *see* *Chaetocnema confinis* Crotch.
- *Sweetpotato hornworm, *see* *Herse cingulata* (F.)

Sweet potato insects

Compton, Ill. C. 391: 42-43, 1932.

iGilbert & Popenoe, USDA FB 1371
rev.: 35-36, 1934.

Wolcott, Ec. Ent. of West Indies: 638-655, 1933.

*Sweetpotato weevil, *see* *Cylas formicarius*

*Sweetpotato whitefly, *see* *Bemisia inconspicua* (Quaint.)

Sweziella, S. albifacies

inVan Duzee, Hawaiian Ent. Soc. P. 8:
346-347, 1933.

Syagrius fulvitaris

Swezey, Hawaiian Ent. Soc. P. 7: 356,
1931.

Sybra alternans

Swezey, Hawaiian Ent. Soc. P. 8: 387,
1934.

Sycamore insects

Armitage, J. Ec. Ent. 24: 1111, 1931.

Sycamore lacebug, *see* *Corythucha ciliata*

Symbiosis

bGlaser, Archives of Pathol. 9(1): 71-96,
1930.

Symbiosis—Cryptocercus and protozoa

biCleveland et al, Amer. Acad. Arts &
Sci. Mem. 17(2): 185-342, 1934.

Symbiosis—Mealybugs and ants

Barreto, Assoc. Tecn. Azucar. Cuba P.
5: 132-133, 1931.

bWolcott, Ec. Ent. of West Indies: 237-
238, 1933.

Symbiotic mange, *see* *Choriopsis equi***Symmerista albifrons**

iMcDaniel, Mich. Sp. B. 243: 22-23, '33.

Sympetrini—Key

Klots, N.Y. Acad. Sci. Sci. Surv. P.R.
14: 36-37, 1932.

Sympetrum assimilatun

biWilliamson, Mich. Univ. Zool. Occ.
Pap. 264, 1933, 7p.

Sympetrum corruptum

iBird, Sci. Month. 36: 376-377, 1933.
Dow, Bost. Nat. Hist. Soc. B. 73: 7-8,
1934.

Sympetrum decisum

biWilliamson, Mich. Univ. Zool. Occ.
Pap. 264, 1933, 7p.

Sympetrum semicinctum

Montgomery, Ent. News 44: 41, 1933.

Sympetrum spp.

Bird, Ent. News 43: 242, 1932.

Symphorobiidae

Smith & Armitage, Cal. B. 509: 21, '31.

Symphorobius barberi

Cole, J. Ec. Ent. 26: 859-860, 1933.
Fullaway, Hawaiian Ent. Soc. P. 8:
216, 1933.

bSmith, J. Kans. Ent. Soc. 7: 126-128,
1934.

Symphoromyia

Leonard, Amer. Mus. Nov. 497, 1931,
2p.

Symphoromyia algens, currani

nLeonard, Amer. Mus. Nov. 497: 1-2,
1931.

Symphoromyia pleuralis

nCurran, BAMNH 61: 40, 1931.

Symphostethus pacificus

nFleutiaux, Hawaiian Ent. Soc. P. 8:
473, 1934.

Van Zwaluwenburg, Hawaiian Ent.
Soc. P. 8: 368, 1934.

Symphylidae

Compton, Ill. St. Nat. Hist. Surv. Ent.
Ser. C. 12: 96-99, 1930.

Mote, Oreg. St. Hort. Soc. R. 24: 92-
93, 1932.

Symphylloxiphus varians

inHebard, Trans. Amer. Ent. Soc. 58:
360-362, 1932.

Symphylus caribbeanus

Barber & Bruner, P.R. Dept. Agr. J.
16: 243, 1932.

Symphlocodes

nHebard, P. Acad. Nat. Sci. Phila. 81:
75, 1929.

Sympycnus spp.

inVan Duzee, Pan-Pac. Ent. 7: 35-57,
1930; 10: 80-82, 1934.

inVan Duzee, BAMNH 61: 175-178, '31.
nVan Duzee, Amer. Mus. Nov. 569: 17-
22, 1932.

nVan Duzee, Amer. Mus. No. 655: 6-8,
1933.

Van Duzee, Ent. News 44: 151, 1933.

Symydobius albasiphus, *see* *Neosymydobius albasiphus***Symydobius intermedius**

inGillette & Palmer, Ann. Ent. Soc.
Amer. 23: 544-546, 1930.

iGillette & Palmer, Ann. Ent. Soc.
Amer. 24: 896-897, 1931.

- Symydobius oblongus**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 896, 1931.
- Synaldis incisa**
 bGahan, USDA Misc. Pub. 174: 146, '33.
- Synanthedon pictipes**, *see* **Conopia pictipes**
- Synanthedon rutilans**, *see* **Conopia rutilans**
- Synanthedon scitula**, *see* **Conopia scitula**
- Synanthedon tipuliformis**, *see* **Conopia tipuliformis**
- Synapheta guexi**
 biDuncan, Cal. St. Teach. Coll. Insects: 100, 1932.
- Synchroa punctata**
 Payne, Ent. News 41: 13-15, 1931.
- Synergus filicornis**
 Weld, P. Ent. Soc. Wash. 32: 143-144, 1930.
- Syneta albida**
 Barss & Mote, Oreg. Ext. B. 431: 12, 1931.
 Hogg, Oreg. St. Hort. Soc. R. 24: 21-23, 1932.
 McWhorter et al., Oreg. Ext. B. 470: 5, 1934.
 Newcomer, USDA C. 270: 37-38, 47-48, 1933.
 Twinn, Ent. Soc. Ont. R. 64: 71, 1933.
- Syneta carinata**
 Schaeffer, J. N.Y. Ent. Soc. 41: 298, '33.
- Syneta sp.**
 Hogg, Oreg. St. Hort. Soc. R. 24: 21-23, 1932.
- Syneura cocciphila**
 Leonard, J. Ec. Ent. 25: 1106, 1932.
- Syngenes palpalis**
 nBanks, Psyche 38: 62, 1931.
- Syngria—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 71, 1930.
- Synorbitomyia**
 nTownsend, J. N.Y. Ent. Soc. 40: 442-443, 1932.
- Syntomaspis druparum**, *see* **Callimome druparum**
- Syntomeida epilais** *
 biBratley, Fla. Ent. 15: 57-64, 1932.
- Syntomosphyrum esurus**
 Clarke, Ga. St. Ent. B. 77: 30-31, 36, 1933.
 Driggers, N.J. R. 52: 192, 1931.
 Roney, J. Ec. Ent. 23: 286-287, 1930.
- Syntomosphyrum indicum**
 Lahille, La Hacienda 28: 241, 1933.
- Syntormon distortitarsis**
 inVan Duzee, Hawaiian Ent. Soc. P. 8: 338-339, 1933.
- Syntormon nubilum**
 inVan Duzee, Amer. Mus. Nov. 655: 3-4, 1933.
- Syntormon rotundicornis**
 inVan Duzee, Amer. Mus. Nov. 483: 24, 1931.
- Syntormon vanduzeei**
 nCurran, Amer. Mus. Nov. 492: 1-2, '31.
- Syringophilus bipectinatus**
 bRebrassier & Martin, Science n.s. 76: 128, 1932.
- Syrphidae**
 Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(6): 31, 1931.
 Curran, Amer. Mus. Nov. 416, 1930, 119; 519, 1932, 9p.
 Fluke, Ann. Ent. Soc. Amer. 23: 133-144, 1930.
 Hull, Trans. Amer. Ent. Soc. 56: 139-148, 1930.
 Knowlton & Pack, Pan-Pac. Ent. 6: 182-189, 1930.
 Sandsten, Col. R. 47: 17-18, 1934.
- Syrphidae and pollination**
 Brittain, Que. Soc. Prot. Pl. R. 25/26: 34-37, 1934.
- Syrphus—Key**
 Curran, BAMNH 61: 56-59, 1931.
- Syrphus americanus**
 iFluke, Wis. Acad. Sci. Trans. 28: 63-127, 1933.
- Syrphus catalina**
 nCurran, Amer. Mus. Nov. 415: 14-15, '30.
- Syrphus divisa**
 iFluke, Wis. Acad. Sci. Trans. 26: 301-306, 1931.
- Syrphus felix**
 Fluke, Wis. Acad. Sci. Trans. 26: 294-295, 1931.
- Syrphus (Epistrophe) flavosignatus**
 inHull, Trans. Amer. Ent. Soc. 56: 139-140, 1930.
- Syrphus (?) hendersoni**
 iJames, Can. Ent. 64: 264, 1932.
- Syrphus hinei**
 nFluke, Wis. Acad. Sci. Trans. 28: 73-75, 1933.

- Syrphus infuscatus**
iFluke, Wis. Acad. Sci. Trans. 26: 297-299, 1931.
- Syrphus lebanoensis**
Fluke, Ann. Ent. Soc. Amer. 23: 139-140, 1930.
- Syrphus (Epistrophe) monachus**
inHull, Trans. Amer. Ent. Soc. 56: 140, 1930.
- Syrphus pingreensis**
inFluke, Ann. Ent. Soc. Amer. 23: 137-139, 1930.
- Syrphus spp.**
iWatson & Berger, Fla. Ext. B. 67: 79-80, 1932.
- Syrphus weborgi**
nFluke, Wis. Acad. Sci. Trans. 26: 299-301, 1931.
- Stellapha placida**
Cresson, Trans. Amer. Ent. Soc. 56: 323, 1930.
- Stelloderus crassatus, nitidus**
binUsinger, Pan-Pac. Ent. 8: 151-153, '32.
- Systema blanda Melsh. (Pale-striped flea beetle)***
Compton, Ill. C. 391: 19-20, 1932.
iDrake & Harris, J. Ec. Ent. 24: 1132-1137, 1931.
Skinner & Coleman, Ind. Ext. R. 23: 51, 1934.
- Systema dimorpha**
binBlake, P. Ent. Soc. Wash. 35: 181-183, 1933.
- Systema discrepans**
nSchaeffer, Bklyn. Ent. Soc. B. 27: 244-245, 1932.
- Systema frontalis**
Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev., 30, 1933.
Caesar & Ross, Ent. Soc. Ont. R. 60: 22, 1930.
- Systema gracilenta**
binBlake, P. Ent. Soc. Wash. 35: 180-181, 1933.
- Systema marginalis corni**
nSchaeffer, Bklyn. Ent. Soc. B. 27: 244, 1932.
- Systema taeniata**
Crosby & Chupp, N.Y. (C.) Ext. B. 206: 29, 1931; Ext. B. 206 rev.: 30, '33.
Dustan, Can. Dept. Agr. Ent. B. 32: 37, 1932.
- Hutson, Mich. R. 47: 221, 1934.
Twinn, Ent. Soc. Ont. R. 65: 116, 1934.
- Systema taeniata blanda, see Systema blanda**
- Systema variata**
nSchaeffer, Bklyn. Ent. Soc. B. 27: 243-244, 1932.
- Systoechus vulgaris (Common bee-fly)**
Criddle, Can. Dept. Agr. Ent. n.s. B. 143: 12, 1931.
Twinn, Ent. Soc. Ont. R. 64: 64, 1933.
- Systole geniculata**
Swezey, Hawaiian Ent. Soc. P. 7: 383, 390-391, 1931.
Van Zwaluwenburg, Hawaiian Ent. Soc. P. 8: 24, 1932.
- Systole geniculata—Parasites**
Swezey, Hawaiian Ent. Soc. P. 8: 381, 1934.
- Syzeuctus eximius**
nWalley, Can. Ent. 66: 238-240, 1934.
- Tabanidae**
iBade, Gard. Chron. Amer. 37: 16, 1933.
biBequaert, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 858-975, 1930.
Bequaert, J. N.Y. Ent. Soc. 39: 533-553, 1931.
Bequaert, Amer. Mus. Nov. 539, 1932.
Curran, Amer. Mus. Nov. 456: 3-6, '31.
bDunn, Ecology 15: 330-331, 1934.
biFairchild, Bost. Soc. Nat. Hist. Occ. Pap. 8: 139-144, 1934.
Howard, Insect Menace: 126-127, '31.
iKnowlton & Rowe, Utah Leaf. 48, 1934. 2p.
bKnowlton & Thatcher, Utah Acad. Sci. P. 11: 291-294, 1934.
iMetcalf, Ill. St. Acad. Sci. Trans. 23: 261-272, 1931.
biPhilip, Minn. T.B. 80, 1931. 132p.
iSanderson, Ins. Pests Farm. ed. 3: 504-505, 1931.
iSchwardt, J. Kans. Ent. Soc. 4: 1-15, 1931.
bStone, Ann. Ent. Soc. Amer. 23: 261-304, 1930.
- Tabanidae—Bourgault's trap**
Segal, J. Ec. Ent. 26: 301-302, 1933.
- Tabanidae—Eggs**
Stouder, Wallaces' Farmer 57: 543, '32.

Tabanidae and disease

Krijgsman, Pac. Sci. Cong. 5, P. 5:
3357-3358, 1934.

bMartin, J. Amer. Vet. Assoc. 76: 222-
238, 1930.

biMatheson, Med. Ent.: 315-327, 1932.

iRiley & Johannsen, Med. Ent.: 298-
308, 1932.

Tabanidae and disease—Anaplasmosis

Sanborn & Moe, Okla. R. f. 1932/1934:
275-279.

biSanborn, Stiles & Moe, Okla. B. 204,
1932. [16p.]

Tabanus americanus

bSchwardt & Hall, Ark. B. 256: 22-23,
1931.

Tabanus atratus F. (Black horsefly)*

biPayne, J. Morph. 53: 547, 1932.

Schwardt, J. Kans. Ent. Soc. 4: 9-14,
1931.

bSchwardt, Ann. Ent. Soc. Amer. 25:
631-635, 1932.

Schwardt, Ark. B. 280: 42-43, 1932.

iSnodgrass, Smithson. Sci. Ser. 5: 321,
1930.

Stone, Ann. Ent. Soc. Amer. 23: 294-
296, 1930.

Tabanus beatificus, benedictus

Bequaert, Bost. Soc. Nat. Hist. Occ.
Pap. 8: 84, 85, 1933.

Tabanus bicolor

Stone, Ann. Ent. Soc. Amer. 23: 296-
297, 1930.

Tabanus biguttatus

Poulton, Science n.s. 74: 352-353, 1931.

Tabanus birdiei

Bequaert, Bost. Soc. Nat. Hist. Occ.
Pap. 8: 86, 1933.

Tabanus bishoppi

nStone, P. Ent. Soc. Wash. 35: 77, 1933.

Tabanus brunneicollis

inBequaert, Amer. Mus. Nov. 539: 13-
14, 1932.

Tabanus campechianus

Bequaert, J. N.Y. Ent. Soc. 39: 544, '31.

Tabanus costalis

iSchwardt, Ark. B. 257: 57, 1930.

biSchwardt & Hall, Ark. B. 256: 23-25,
1931.

Tabanus fasciatus

Bequaert, Amer. Mus. Nov. 539: 8-10,
1932.

Tabanus haemagogus

Bequaert, J. N.Y. Ent. Soc. 39: 541-
543, 1931.

Tabanus itzarum

inBequaert, J. N.Y. Ent. Soc. 39: 548-
551, 1931.

iBequaert, Carnegie Inst. Wash. Pub.
431: 564, 1933.

Tabanus leucaspis

Bequaert, J. N.Y. Ent. Soc. 39: 551-
552, 1931.

Tabanus lineola F. (Striped horsefly)*

Kidder, Fla. R. f. 1934: 111.

Schwardt, Ark. B. 257: 57, 1930.

bSchwardt, Ann. Ent. Soc. Amer. 24:
409-416, 1931.

Schwardt, Ark. B. 268: 47-48, 1931.

Tabanus littoreus

Bequaert, J. N.Y. Ent. Soc. 39: 543,
1931.

Tabanus maya

inBequaert, J. N.Y. Ent. Soc. 39: 546-
548, 1931.

iBequaert, Carnegie Inst. Wash. Pub.
431: 562-563, 1933.

Tabanus milleri

Bequaert, Bost. Soc. Nat. Hist. Occ.
Pap. 8: 86, 1933.

Tabanus nervosus

inCurran, Amer. Mus. Nov. 456: 4-5, '31

Tabanus niveinotatus

nBequaert, Harv. Univ. Inst. Trop.
Biol. Contrib. 5: 932, 1930.

Tabanus obscurehirtus lubutuensis

nBequaert, Harv. Univ. Trop. Biol.
Contrib. 5: 920-921, 1930.

Tabanus oculus

iBequaert, J. N.Y. Ent. Soc. 39: 540-
541, 1931.

Tabanus oklahomensis

nStone, P. Ent. Soc. Wash. 35: 76-77,
1933.

Tabanus principis

nBequaert, Harv. Univ. Inst. Trop.
Biol. Contrib. 5: 944-945, 1930.

Tabanus punctifer

biHerms, Wheeler & Herms, J. Ec. Ent.
27: 990-993, 1934.

Tabanus reinwardtii

Stone, Ann. Ent. Soc. Amer. 23: 299-
301, 1930.

Tabanus sackeni

binFairchild, Bost. Soc. Nat. Hist. Occ.
Pap. 8: 141-143, 1934.

Tabanus secedens, socialis

Bequaert, Amer. Mus. Nov. 539: 15,
16, 1932.

Tabanus sparus

Bequaert, Bost. Soc. Nat. Hist. Occ.
Pap. 8: 86-87, 1933.

Tabanus spp.

biSchwardt & Hall, Ark. B. 256, 1931.
27p.

Smith, J. Kans. Ent. Soc. 5: 84, 1932.

***Tabanus striatus* and disease**

Krijgsman, Pac. Sci. Cong. 5, P. 5:
3358-3359, 1934.

bMartin, J. Amer. Vet. Med. Assoc. 76:
221-238, 1930.

Tabanus stygius

Schwardt, Ark. B. 312: 38, 1934.

Tabanus superjumentarius

Bequaert, Bost. Soc. Nat. Hist. Occ.
Pap. 8: 87, 1933.

Tabanus trimaculatus

bSchwardt, Ann. Ent. Soc. Amer. 25:
635-637, 1932.

Tabanus (Theriopectes) typhus

Bequaert, Bost. Soc. Nat. Hist. Occ.
Pap. 8: 87, 1933.

Tabanus (Neotabanus) vittiger

Bequaert, Cal. Acad. Sci. P. ser. 4, 21:
136-137, 1934.

Tabanus wrighti

Bequaert, Bost. Soc. Nat. Hist. Occ.
Pap. 8: 87-88, 1933.

Tabanus yucatanus

Bequaert, J. N.Y. Ent. Soc. 39: 544-
546, 1931.

Tachardia lacca

iMetcalf & Flint, Fund. of Ins. Life: 51-
54, 1932.

***Tachina ampelus* 9, *areos* 6-7, *candens* 15,
convecta 4-5, *hybreas* 13-14, *insolita*
7-8**

Aldrich, PUSNM 80(10): 1931.

Tachina larvarus

Brown, USDA C. 176: 14, 1931.

Tachina mella

bProper, J. Agr. Res. 48: 374, 1934.

***Tachina melobosis* 10-11, *obconica* 12-13,
signifera 16, *violenta* 12**

Aldrich, PUSNM 80(10): 1931.

Tachinalia

nCurran, Fam. & Genera of North
Amer. Diptera: 466, 1934.

Tachinidae

Aldrich, PUSNM 80(10): 1931. 16p.

Aldrich, PUSNM 80(20), 1932. 8p.

iAldrich, P. Ent. Soc. Wash. 35: 170-
173, 1933.

Burkett, Tex. Dept. Agr. B. 111: 212,
1932.

Curran, Amer. Mus. Nov. 456: 22-23,
1931.

iGreene, P. Ent. Soc. Wash. 36: 27-40,
1934.

Rowe, Ent. News 41: 303-305, 1930;
43: 230-234, 1932; 44: 122-126, '33.

iOutdoor Ind. 1(6): 15, 1934.

Tachinodexia

nTownsend, J. N.Y. Ent. Soc. 40: 457,
1932.

Tachopteryx thoreyi

biByers, Univ. Fla. Pub. Biol. Sci. Ser. 1,
1: 242-244, 1930.

bMontgomery, Ind. Acad. Sci. P. 39:
311, 1930; P. 41: 451, 1932.

Tachycellus frosti, tibialis

nFall, Can. Ent. 62: 251-252, 1930.

Tachypterellus

biList, Col. B. 385, 1932. 106p.

List, Col.-Wyo. Acad. Sci. J. 1(4): 61-
62, 1932.

***Tachypterellus consors*—Parasites**

Gahan, J. Wash. Acad. Sci. 21: 37-38, '31.

Tachypterellus consors cerasi

iList, Col. B. 385: 1-106, 1932.

List, Cal. Agr. Mo. B. 23: 237, 1934.

†***Tachypterellus quadrigibbus* (Apple cur-
culio)***

Britton, Conn. B. 344: 73, 1933.

Buckell, Can. Ent. 62: 47-49, 1930.

iChapman & Hammer, N.Y. (Gen.) B.
606: 13-17, 1932.

iCummings, Vt. Com. Agr. Bien. R. 15:
139-140, 1930.

biDeLong, Ohio J. Sci. 34: 193, 1934.

Grimes, Kans. Bien. R. f. 1932/1934:
109-110.

biHammer, J. Ec. Ent. 25: 569-575,
1932; 26: 420-424, 1933; 27: 367-
369, 1934.

Hedrick, N.Y. (Gen.) R. 51: 69, 1932.

Ladd, N.Y. (Gen.) R. 52: 66-69, 1933.

- binList, Col. B. 385: 13-14, 1932.
 Maheux & Petch, Ent. Soc. Ont. R. 60: 15, 1930.
 Maltais, Que. Pom. & Fr. Grow. Soc. R. 40: 100, 1933.
 Petch, Que. Soc. f. Prot. Pl. R. 22: 33-34, 1931.
 Petch, Que. Pom. & Fr. Grow. Soc. R. 39: 13-14, 1932.
 iPettit & Hutson, Mich. C.B. 137: 51-52, 1931.
 Pickett & Filingner, Kans. C. 169: 15-16, 1932.
 iPotter et al, N.H. Ext. B. 47: 43-44, 1934.
 iQuaintance & Siegler, USDA FB 1270 rev.: 21-22, 1931.
 iRoss, Can. Dept. Agr. B. 129: 41, 1930.
 Twinn, Que. Soc. Prot. Pl. R. 23-24: 155, 1932; R. 64: 71, 1933; R. 65: 119, 1934.
- Tachypterellus quadrigibbus—Parasites**
 bParker & Lamerson, J. Kans. Ent. Soc. 7: 90-95, 1934.
- Tachypterellus quadrigibbus and Fire-blight**
 bMachacek, Que. Soc. Prot. Pl. R. 22: 55-67, 1931.
- Tachypterellus quadrigibbus magnus (Western apple curculio)**
 Lamerson, Kans. St. Hort. Soc. Bien. R. 42: 53-57, 1934.
- binList, Col. B. 385: 10-12, 1932.
- Tachys spp.**
 nDarlington, Psyche 41: 78-83, 1934.
 nDarlington, Bost. Soc. Nat. Hist. Occ. Pap. 8: 160-161, 1934.
 nMutchler, Amer. Mus. Nov. 686: 3-4, 1934.
- Tachysphex fusus**
 Williams, Hawaiian Ent. Soc. P. 8: 17, 1932.
- Tachytes mandibularis**
 Dow, Psyche 37: 182, 1930.
- Taeniaptera spp.**
 Cresson, Trans. Amer. Ent. Soc. 56: 350-353, 1930.
- Taeniocampa incerta**
 Clausen, USDA C. 168: 20, 1931.
- Taeniodictys, T. sericella**
 inForbes, Psyche 40: 89-91, 1933.
- Taeniogaster fasciatus**
 biByers, Univ. Fla. Pub. Biol. Sci. Ser. 1, 1: 257-258, 1930.
- Taenionema pacifica**
 iNewcomer, USDA C. 270: 63, 1933.
- Taeniopteryx pacifica, see Taenionema pacifica**
- Taeniorhynchus—Key**
 biMatheson, Mos. of North Amer.: 197-200, 1929.
- Taeniorhynchus (Mansonioides) africanus**
 Philip, Amer. J. Trop. Med. 10(1): 2-7, 1930.
- Taeniorhynchus africanus and yellow fever**
 Bishopp, N.J. Mos. Exterm. Assoc. P. 19: 17-18, 1932.
 Philip, Sci. News Letter 18: 8, 1930.
- Taeniorhynchus perturbans**
 Johnson, B. Bost. Soc. Nat. Hist. 55: 19, 1930.
 McDaniel, Mich. C.B. 144: 19, 1932.
 Matheson, Mos. of North Amer.: 38-39, 1929.
- Taeniothrips—Key**
 iSteinweden, Trans. Amer. Ent. Soc. 59: 269-294, 1933.
- Taeniothrips atratus montanus**
 Hyslop, J. Ec. Ent. 27: 565, 1934.
- Taeniothrips gladioli, see Taeniothrips simplex**
- Taeniothrips inconsequens (Pear thrips)***
 bBailey, J. Ec. Ent. 27: 879-884, 1934.
 Barss & Mote, Oreg. Ext. B. 431: 11, 1931.
 Borden, Pac. Rur. Press 123: 234, 1932.
 Britton, Conn. B. 244: 142, 1933.
 Essig, Hist. of Ent.: 98, 1931.
 Hutchison, Cal. R. f. 1932-34: 74.
 Jardine, Oreg. Bien. R. f. 1928-30: 87.
 biLockwood, Cal. Agr. Mo. B. 22: 323, 336, 1933.
 Moulton, J. Ec. Ent. 24: 1035, 1931.
 iNewcomer, USDA C. 270: 35, 53-55, 1933.
 iQuaintance & Siegler, USDA FB 1666: 75, 1931.
 Smith, Cal. B. 562, 1933, 16p.
- Taeniothrips longistylus**
 bFullaway & Dobrosky, Pac. Sci. Cong. 5, P. 5: 3439-3444, 1934.

- †*Taeniothrips simplex* (*Gladiolus thrips*)*
 Antisdale, Glad. Rev. 9(8): 240-241, 1932.
 Arenius, N.Eng. Glad. Soc. YB f. 1933: 124; YB f. 1934: 90-92.
 Bailey, J. Ec. Ent. 26: 291-292, 1933.
 Barre, S.C. R. 46: 71, 1933.
 Biddle, Flow. Grow. 18: 552, 1931.
 Bonisteel, Can. Glad. Ann. 9: 51-60, 1932.
 Britton, Conn. B. 344: 110, 1933; B. 349: 457-458, 1933.
 Britton & Waldon, Conn. B. 338: 585-587, 1932.
 Caesar, Ont. Min. Agr. R. f. 1932: 46, 1933.
 Chapman, Hawaiian Ent. Soc. P. 8: 244, 1933.
 Chock & Fullaway, Hawaiian For. & Agr. 29: 177-180, 1932.
 Christie, Ont. Agr. Coll. R. 59: 107, '34.
 Cole, Oreg. Dept. Agr. B. 15: 11-12, '33.
 Cooper, Flow. Grow. 18: 569, 1931; 19: 478, 1932.
 Davis, Gard. Chron. Amer. 37: 91-92, 1933.
 Denton, Flow. Grow. 18: 502-503, '31.
 iDodge, J. N.Y. Bot. Gard. 32: 205-210, 1931.
 Doucette, Wash. St. Hort. Soc. P. 28: 290-293, 1932.
 Dustan, Can. Glad. Ann. 9: 61-64, '32.
 Dustan, Ont. Hort. Soc. R. 26: 30-36, 1932.
 Dustan, Que. Soc. Prot. Pl. R. 23/24: 32-34, 1932.
 Dustan, N.Eng. Glad. Soc. YB f. 1933: 122.
 iDustan, Can. Glad. Soc. Quar.: 13-17, Oct. 1934.
 Dustan & Matthewman, Ent. Soc. Ont. R. 62: 84-87, 1932.
 biEvan, Glad. Rev. 9: 49-52, 98, 170-172, 182, 1932.
 Evans, N.Eng. Glad. Soc. YB f. 1933: 117-119.
 Fallis, Glad. Rev. 8: 255-256, 1931.
 Fifield, Glad. Rev. 9: 303-305, 1932.
 Fleury, Cal. Agr. Mo. B. 21: 554, 1932.
 Gambrell, Flow. Grow. 19: 300, 1932.
 biGambrell, J. Ec. Ent. 27: 1159-1166, 1934.
 Gardner, Mich. R. f. 1931: 30.
 Gersdorff, N.Eng. Glad. Soc. YB f. 1933: 122-123.
 Graves, Flow. Grow. 18: 525, 1931.
 Hamilton, Glad. Rev. 9: 218, 1932.
 Hamilton, J. Ec. Ent. 26: 555-564, '33.
 Hamilton, N.J. C. 333, 1934, 4P.
 Hedrick, N.Y. (Gen.) R. 53: 51, 1934.
 Herr, Flow. Grow. 18: 524, 1931.
 Herr, Minn. Hort. 60: 34, 1932.
 biHerr, Ohio B. 497: 77, 1932; B. 537, 1934, 64P.
 Hornberger, N.Eng. Glad. Soc. YB f. 1933: 120-121.
 iHuff, Glad. Rev. 9: 317-320, 1932.
 Huntington, Gard. Club Amer. B. Ser. 5(2): 108-111, 1933.
 Hyslop, J. Ec. Ent. 27: 565, 1934.
 Ladd, N.Y. (C.) R. 46: 112-113, 1933.
 Ladd, N.Y. (Gen.) R. 52: 62-63, 1933.
 McDaniel, Flor. Exch. 80: 32B, 1932.
 iMcDaniel, Mich. Quar. B. 15: 168-172, 1933.
 biMcDaniel, Mich. C. B. 149: 13-20, '34.
 McLean, J. N.Y. Bot. Gard. 34: 145-148, 1933.
 MacLeod, N.Y.(C.) R. 46: 112-113, '33.
 Marlatt, USDA Ent. R. f. 1932: 18; R. f. 1933: 22.
 Moore, N.J. Gard. 5(2): 109-111, 1932.
 inMoulton & Steinweden, Can. Ent. 63: 20-21, 1931.
 iO'Kane, N.H. Dept. Agr. R. f. 1931-32: 104-105.
 Pridham, Glad. Rev. 9: 347, 1932.
 Pridham, N.Eng. Glad. Soc. YB f. 1933: 123-124.
 Richardson & Nelson, J. Ec. Ent. 26: 546-554, 1933.
 Ryder, Flow. Grow. 21(2): 72, 1934.
 Seeley, Flor. Exch. 80: 16, 1932.
 Siebert, Flow. Grow. 19: 405, 1932.
 Siebert, Gard. Chron. Amer. 36: 189, 1932.
 Smith, J. Ec. Ent. 25: 1110, 1932.
 Smith, P. Ent. Soc. Wash. 34: 107, '32.
 iSmith & Nelson, J. Ec. Ent. 26: 528-536, 1933.
 Smith & Richardson, J. Ec. Ent. 26: 536-545, 1933.
 iSmith & Weigel, J. Ec. Ent. 25: 312-318, 1932.

- Steffanson, N.Eng. Glad. Soc. YB f. 1933: 121-122.
- Tate, Iowa St. Hort. Soc. Trans. 68: 171-175, 1933.
- iTate, Iowa St. Hort. Soc. Trans. 69: 239-244, 1934.
- Tate, South Flor. & Nurserym. 38(9): 9, 1934.
- Twinn, Que. Soc. Prot. Pl. R. 23/24: 154, 1932.
- Twinn, Ent. Soc. Ont. R. 64: 69, 1933.
- iWalden, Conn. B. 349: 457-458, 1933; B. 360: 473, 1934.
- Wallace, Ind. YB f. 1934: 602-603.
- Wallace et al, Ind. Dept. Conserv. R. 14: 56, 1932.
- Watson, Fla. R. f. 1933: 75.
- Watson & Wilson, Fla. R. f. 1934: 55.
- iWeigel, Flor. Exch. 80(16): 11, 1932; 81(21): 9, 23-24, 1933.
- Weigel, Glad. Rev. 9: 251, 1932.
- Weigel, W. Wash. Hort. Assoc. P. 25: 15-16, 1934.
- Weigel & Smith, J. Ec. Ent. 26: 523-528, 1933.
- iWeigel, Smith & Richardson, Flor. Exch. 79(11): 11, 40, 80B, 1932.
- Weston, Hort. n.s. 10: 352, 1932.
- Whitcomb, N.Eng. Glad. Soc. YB f. 1932: 68-70; YB f. 1933: 119-120.
- Williams, Ohio B. 532: 40-41, 1934.
- Wilson, Wis. Hort. 22: 316, 342, 1932.
- Wright, N.Eng. Glad. Soc. YB f. 1934: 111-113.
- Young, Glad. Rev. 9: 200-201, 1932.
- Taeniothrips simplex—Fumigation**
- Braunton, Pac. Rur. Press 127: 194, '34.
- iEvens, Glad. Rev. 9: 49-52, 1932.
- Gersdorff, Glad. Rev. 9: 194, 1932.
- *Hamilton, N.J. C. 333, 1934, 4p.
- Herr, Ohio B. 516: 51-52, 1933.
- McDaniel, J. Ec. Ent. 25: 732, 1932.
- Pridham, N.Y. (C.) Ext. B. 231: 57, 1932.
- Weigel, Hort. n.s. 11: 97-98, 1933.
- Weigel, N.Eng. Glad. Soc. YB f. 1933: 114-116.
- Taeniothrips simplex—Spraying**
- Caesar, Ont. Min. Agr. R. f. 1932: 46, 1933.
- Drake & Richardson, Iowa R. f. 1934: 101-102.
- Hamilton, Glad. Rev. 9: 241-242, 1932.
- Herr, Ohio Wkly. P.B. 17(14): 1932.
- Hoffman, Glad. Rev. 10(1): 19, 1933.
- McDaniel, J. Ec. Ent. 26: 835-836, '33.
- Nelson, Glad. Rev. 10: 223, 1933.
- biRichardson, J. Agr. Res. 49: 359-373, 1934.
- Runge, Flor. Exch. 81(10): 17, 1933.
- Tagalochares**
- nBanks, Amer. Acad. Arts & Sci. P. 69(1): 97-98, 1934.
- Tagalopsocus hyalinus**
- nBanks, Psyche 38: 58, 1931.
- *Tahitian coconut weevil, *see* *Diocalandra taitensis* Guer.
- Tailed blue, *see* *Everes comyntas***
- Talanus**
- Fall, Bklyn. Ent. Soc. B. 27: 148, 1932.
- Talides, *T. basistrigata***
- binEaton, Ann. Ent. Soc. Amer. 25: 19-23, 1932.
- Talponia batesi**
- inHeinrich, P. Ent. Soc. Wash. 34: 20-23, 1932.
- Tamalia cowneni**
- iGillette & Palmer, Ann. Ent. Soc. Amer. 24: 884, 1931.
- iHottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 268-269, 1931.
- Tanaocerus rugosus**
- inHebard, Trans. Amer. Ent. Soc. 57: 122-123, 1931.
- Tanaostigma haematoxyli**
- binDozier, P.R. Dept. Agr. J. 16: 104-109, 1932.
- Taniva albolineana**
- Bailey, Cult. Conifers N.Amer.: 349, '33.
- Caesar & Ross, Ent. Soc. Ont. R. 60: 22, 1930.
- Hamilton, N.J. R. 51: 186, 1930.
- Hamilton, J. Ec. Ent. 24: 167, 1931.
- Pettit, Mich. Ent. R. f. 1931: 21.
- Pettit, Mich. R. 44: 271-272, 1931.
- Tank mixture, *see* Spray materials—Oil—Tank mixture**
- Tanyderidae**
- biWilliams, J. N.Y. Ent. Soc. 41: 1-36, 1933.
- Tanypus brooksi**
- nGerry, Psyche 40: 95-96, 1933.
- Tanypus multipunctatus**
- nCurran, BAMNH 61: 29, 1931.

- Tanytarsus dissimilis**
biCavanaugh & Tilden, Ecology 11: 281-287, 1930.
- Tanytarsus sp.**
Lutz, Amer. Mus. Nov. 498: 4, 1931.
iPate, N.Y. St. Conserv. R. 21 Sup.: 138, 1931.
Williams, Hawaiian Ent. Soc. P. 8: 376, 1934.
- Taosa spp.**
inMuir, Hawaiian Ent. Soc. P. 7: 470-474, 1931.
- Taphrocerus bruneri**
nFisher, Can. Ent. 62: 8-9, 1930.
- Taphrocerus dietzi, shannoni**
nFisher, PUSNM 82(27): 34-37, 1933.
- Tampinoma humilis**
Furbay, Science n.s. 76: 367, 1932.
- Tapinoma melanocephalum**
Phillips, Hawaiian Pineapple Prod. B. 15: 20-21, 1934.
- Tapinoma sessile (Odorous house ant)***
Wallace, Ind. Dept. Conserv. R. 13: 55, 1931.
Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 39, 1932.
- Tapinoma sessile—Poison bait**
Wallace, Ind. YB f. 1931: 825.
- Tarache terminimaculata**
Lemmer, Bklyn. Ent. Soc. B. 27: 177, 1932.
- Taracticus ruficaudus**
nCurran, Amer. Mus. Nov. 425: 4-5, 1930.
- Tarantula, see Eurypelma hentzi**
- Tarantula hawk, see Pepsis formosa**
- Targionia sacchari (Sugar cane scale)**
Leonard, P.R. Dept. Agr. J. 16: 139, 1932.
- *Tarnished plant bug, see Lygus pratensis**
- Taro insects**
Hawaiian For. & Agr. 28: 60, 1931.
- Taro leafhopper, see Megamelus proserpina**
- Tarsonemus ananas—Pineapples**
Illingworth, Hawaiian Ent. Soc. P. 7: 409-410, 1931.
- Tarsonemus approximatus**
Dearing & Griffiths, N.C. Agr. B. Jan. 1930: 45.
bGriffiths, USDA C. 122: 60, 1930.
biLatta, J. Ec. Ent. 25: 1020-1026, 1932.
- Tarsonemus approximatus narcissi Ewing (Bulb scale mite)***
Ewing, USDA C. 122: 66, 1930.
McWhorter & Weiss, Oreg. B. 304: 21, 1932.
- Tarsonemus fragariae**
Ewing, P. Biol. Soc. Wash. 45: 99, '32.
Ewing & Smith, P. Ent. Soc. Wash. 36: 267-268, 1934.
iSmith & Goldsmith, Pac. Rur. Press 128: 390, 1934.
- Tarsonemus latus Banks (Broad mite)***
Garman, Conn. B. 327: 576, 1931.
Marlatt, USDA Ent. R. f. 1932: 18.
Marlatt, USDA Ent. R. f. 1933: 22.
iSmith, USDA C. 301, 1933, 13p.
- †Tarsonemus pallidus (Cyclamen mite)***
bBentley & Barlett, Tenn. Pl. Dis. Control B. 57: 35-36, 1931.
iCompton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 52-54, 1930.
Compson & Farrar, Amer. Flor. 72 (2176): 9, 34, 1930.
Crosby et al., N.Y.(C.) Ext. B. 306: 13, '34.
Doucette & Baker, J. Ec. Ent. 25: 417-418, 1932.
Dustan & Matthewman, Ent. Soc. Ont. R. 62: 34-37, 1932.
Ewing, P. Biol. Soc. Wash. 45: 99, '32.
Ewing & Smith, P. Ent. Soc. Wash. 36: 267-268, 1934.
- biHartzell & Wilcoxon, Boyce Thompson Inst. Contrib. 2: 512-522, 1930.**
Haseman & Jones, Mo. B. 342: 30, 1934.
Jones & Hanson, Wash. Ext. B. 180: 10, 1933.
McDaniel, Mich. Sp. B. 214: 35, 1931.
Marlatt, USDA Ent. R. f. 1930: 28; R. f. 1931: 37; R. f. 1933: 22.
Mote & Dimmick, Oreg. C. Inf. 96, 1934, 2p.
iMumford, Ill. R. 42: 149-150, 1929; R. 43: 146-147, 1930; R. 44: 145-146, '31.
bMunger, Minn. TB 93, 1933, 20p.
iSmith, USDA C. 301, 1933, 13p.
Wallace, Ind. Dept. Conserv. R. 13: 60-61, 1931.
Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 34-35, 1932.
- Tawny-edge, see Polites cernes**
- Taxonomy—Entomology, see Insects—Taxonomy**

Tea insects

- Clausen, USDA C. 168: 77, 1931.
 Harler, Culture & Marketing of Tea:
 178-179, 266-270, 334-335, 352-354,
 1933.

Tegenaria lapcidinarum

- inSpassky, J. N.Y. Ent. Soc. 42: 2-4, '34.

Tegeticula yuccasella (Yucca moth)*

- iPellett, Rur. N.Y. 91: 693, 1932.

Tegrodera aloga

- Smyth, J. Kans. Ent. Soc. 7: 108, 1934.

Teichomyza fusca

- Aldrich, P. Ent. Soc. Wash. 33: 116,
 1931.

Tela, T. annulicornis, chlorosoma

- nHebard, Ent. News 43: 99-102, 1932.

Teladoma helianthi

- inBusck, P. Ent. Soc. Wash. 34: 17-20,
 1932.

Telamona spp.

- Ball, Ent. Amer. n.s. 12: 40-45, 49-54,
 61, 149-150, 1931.

- nBall, P. Biol. Soc. Wash. 46: 26, 1933.

- nGoding, Amer. Mus. Nov. 421: 21, '30.

Telamonanthe rileyi

- Ball, Ent. Amer. n.s. 12: 68, 1931.

Telamonini

- Ball, Ent. Amer. n.s. 12: 69, 1931.

Telea polyphemus (Polyphemus moth)*

- iBeard, Amer. Boys' Bk. Bugs: 81-86,
 1932.

- iCoker, Nature Mag. 20(1): 17, 1932.

- iDawson, Ent. News 42: 125-126, 1931.

- iFindlay, Nature Mag. 15: 376, 1930.

- iMcDaniel, Mich. Sp. B. 243: 53-54,
 1933.

- Wickwire & Calale, Ent. News 41: 323,
 1930.

- Wurster, Bklyn. Ent. Soc. B. 25: 273-
 274, 1930.

Telebasis—Key

- Klots, N.Y. Acad. Sci. Sci. Surv. P.R.
 14: 83-84, 1932.

Telebasis incolumis

- inWilliamson & Williamson, Mich. Univ.

- Mus. Zool. Occ. Papers 216: 1-7, '30.

Telegeusis nubifer

- nMartin, Pan-Pac. Ent. 8: 91-92, 1931.

Telegonus spp.

- iWilliams & Bell, Trans. Amer. Ent.
 Soc. 60: 18-26, 1934.

- inBell, Bklyn. Ent. Soc. B. 29: 90-92, '34.

Telemiades acutipennis, azines, megallus

- iWilliams & Bell, Trans. Amer. Ent.
 Soc. 60: 28-29, 1934.

Telenomus (Prophanurus) alecto

- Jaynes, USDA TB 363: 19-20, 1933.

Telenomus goniopis

- bSchwardt, J. Kans. Ent. Soc. 7: 75-76,
 1934.

Telenomus heliothidis

- Winburn & Painter, J. Kans. Ent. Soc.
 5: 11-15, 1932.

Telenomus mayri

- Brown, USDA C. 176: 12, 1931.

Telenomus mesillae

- Gahan, Ann. Ent. Soc. Amer. 25: 757,
 1932.

Telenomus nawai

- biPemberton, Hawaiian Pl. Rec. 37: 168-
 174, 1933.

- Swezey, Hawaiian Ent. Soc. P. 7: 484,
 1931.

- biWilliams, Handb. Insects . . . Hawai-
 ian Sugar Cane Fields: 249-250, '31.

Telenomus sp.

- Davis et al., USDA TB 388: 45-46, '33.

Teleonomia lantanae (Lantana leaf bug)*

- Tillyard, Pac. Sci. Cong. 5, P. 5: 3556,
 1934.

Telephone pole insects

- bAmer. Tel. & Tel. Co. Kofoid, Termites
 & Termite Control: 635-670, 1934.

- iBarton et al., Kofoid, Termites &
 Termite Control: 603-634, 1934.

- iBridgwater, Elect. World 100: 693, '32.

- iBrown, Elect. West. 73(5): 16-21, 1934.

Teliapsocus conterminus

- inChapman, J. N.Y. Ent. Soc. 38: 334-
 337, 1930.

Telmatoctopus albipunctatus

- Bryan, Hawaiian Ent. Soc. P. 8: 230,
 1933.

- Williams, Hawaiian Ent. Soc. P. 8: 18,
 1932.

Telonaca—Key—T. ramona

- inBall, Ent. Amer. n.s. 12: 32-33, 1931.

Telphus amelanchierella

- nBraun, Trans. Amer. Ent. Soc. 56: 6-7,
 1930.

Telphusa distictella

- nForbes, N.Y. Acad. Sci. Sci. Surv. P.R.
 12(1 sup.): 372, 1931.

- nForbes, P.R. Dept. Agr. J. 15: 372, '31.

- Telphusa sedulitella*
Clarke, Can. Ent. 66: 172, 1934.
- Telsimia emarginata*
Flanders, J. Ec. Ent. 27: 723-724, 1934.
- Temesiphorus costalis*
bPark, Ent. News 44: 149-151, 1933.
- Temnochila sonorana*
nBarrett, Pan-Pac. Ent. 8: 171-172, '32.
- Temnochila virescens*
Thompson, J. Ec. Ent. 27: 72, 1934.
- Temnostoma bombylans*
biMetcalf, Ann. Ent. Soc. Amer. 26: 1-11, 1933.
- Temnostoma obscurum*
Curran, BAMNH 61: 72-73, 1931.
- †Temperature and insects
iAaron, Nature Mag. 18: 365-369, 1931.
- biBarnes & Kohn, Biol. B. 62: 306-312, 1932.
- iBatchelder & Questel, USDA TB 395, 1933, 13p.
- Beal, J. For. 31: 328-336, 1933.
- biBeal, J. Ec. Ent. 27: 1132-1139, 1934.
- biBoyd, Introd. to Malariology: 254-256, 1930.
- Bradley, South. Med. J. 25: 533-534, 1932.
- iBrindley & Richardson, Iowa St. Coll. J. Sci. 5: 211-222, 1931.
- Bruner et al, Rev. de Agr. Cuba 11(10): 34-35, 1930.
- Cameron, Que. Soc. Prot. Pl. R. 25/26: 37-38, 1934.
- biChapman, Animal Ecology: 34-83, 106-127, 1931.
- iChase, Northw. Fr. Grow. 4(7): 4-5, 14, 18, 1932.
- Clark, Tex. Cit. 6(10): 18, 1930.
- Clark, Sci. News Letter 22: 229, 1932.
- iClark & Friend, Tex. Cit. 9(6): 8, 12, 1932.
- Cory, Md. St. Hort. Soc. P. 34: 62, '32.
- Crosby, N.Y. St. Hort. Soc. P. 77: 9-10, 1932.
- bCrumb & Chamberlin, Fla. Ent. 18: 11-14, 1934.
- biDarby & Kapp, USDA TB 400, 1933, 19p.; TB 444: 10-19, 1934.
- bDavis, Amer. J. Hyg. 16: 177-191, '33.
- DeVogel, U.S. Pub. Health R. 46: 2739-2740, 1931.
- Dreyer, Physiol. Zool. 5: 301-331, '32.
- iDustan & Armstrong, Ent. Soc. Ont. R. 63: 29-39, 1932.
- biFlanders, Hilgardia 5: 395-406, 1931.
- bFlanders, Ann. Ent. Soc. Amer. 26: 529-535, 1933.
- Garman & Shread, Ann. Ent. Soc. Amer. 24: 425, 1931.
- Glenn, Ill. Acad. Sci. Trans. 24: 167-180, 1931.
- bGreb, Biol. B. 65: 179-186, 1933.
- Haseman, Mo. B. 272: 58, 1929.
- bHeadlee, J. Ec. Ent. 26: 313-319, 1933.
- Herbert, J. Ec. Ent. 25: 832-833, 1932.
- Hinds, Sugar B. 10(13): 6-7, 1932.
- iHolloway, J. N.Y. Ent. Soc. 39: 555-563, 1931.
- iHopping & Jenkins, Can. Dept. Int. For. Serv. C. 38, 1933, 14p.
- bJones, J. Ec. Ent. 26: 887-892, 1933.
- Kelsall, Maritime Farm. 37(15): 6, '32.
- biKleinman, J. Cell. & Comp. Physiol. 4: 221-225, 1933.
- iLockwood, Pac. Rur. Press 120: 403, 1930.
- iLoftin & Christenson, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 115, [P. Pt. 2]: 6, 1932.
- biLund, Ann. Ent. Soc. Amer. 27: 324-340, 1934.
- bMcBride & Mason, J. Ec. Ent. 27: 902-907, 1934.
- biMail, J. Agr. Res. 41: 571-592, 1930.
- bMaxwell, Que. Soc. Prot. Pl. R. 25/26: 106-110, 1934.
- biMenusan, Ann. Ent. Soc. Amer. 27: 515-526, 1934.
- biNagel & Shepard, J. Agr. Res. 48: 1009-1016, 1934.
- iNettles, S.C. R. 46: 77-78, 1933.
- bParker, Mont. B. 223, 1930, 131p.
- Parks, Ohio St. Hort. Soc. P. 66: 49-50, 1933.
- iParrott & Collins, J. Ec. Ent. 27: 372-379, 1934.
- Payne, Ecology 11: 500-504, 1930.
- Peairs, W.Va. B. 244: 38, 1931.
- Pepper, J. Ec. Ent. 27: 290, 1934.
- Petch, Que. Pom. & Fr. Grow. Soc. R. 39: 43-46, 1932.
- Peterson, J. Ec. Ent. 24: 1071-1074, 1931.
- Pridham, Glad. Rev. 9: 347, 1932.

- Rasmussen, N.H. Hort. Soc. R. 22: 17-19, 1932.
- Ross, Can. Hort. Fr. ed. 57: 85, 1934.
- bSacharov, Ecology 11: 505-517, 1930.
- iSeamans, Que. Soc. Prot. Pl. R. 25/26: 111-117, 1934.
- bSeamans & Salt, Que. Soc. Prot. Pl. R. 25/26: 118-124, 1934.
- biShelford, Ill. St. Nat. Hist. Surv. B. 19: 487-547, 1932.
- biSmith, J. Agr. Res. 43: 547-557, 1931.
- Snapp, J. Ec. Ent. 26: 732-733, 1933.
- iSpuler, Northw. Fr. Grow. 2(35): 7, 12, 1930.
- iSpuler, Dorman & Gillies, Northw. Fr. Grow. 3(12): 4, 1931.
- Stanley, Physiol. Zool. 44: 394-408, 1931.
- bWalker, Va. Truck B. 75: 968-969, '31.
- Whitcomb, Mass. B. 293: 34, 1933.
- Wolcott, Ec. Ent. of W.I.: 181-183, '33.
- Temperature apparatus, constant**
Houser, Savage & Fillingner, Ohio B. 446: 88-89, 1930.
- *Ten-lined June beetle, *see* Polyphylla decimlineata (Say)
- Tenagobia spp.**
inDeay, Bklyn. Ent. Soc. B. 25: 171-176, 1930.
- Tenagobius celocis**
nDrake & Harris, Carnegie Mus. Ann. 20: 267-268, 1931.
- Tenderfooted leaf hopper, *see* Draeculacephala mollipes**
- Tenebrio molitor L. (Yellow mealworm)***
iBack & Cotton, USDA FB 1260 rev.: 22, 1930.
Buckley & Bunyea, USDA FB 1652 rev.: 67, 1933.
Gray, Ent. Soc. Ont. R. 65: 67, 1934.
biHartzell, Boyce Thompson Inst. Contrib. 6: 211-223, 1934.
bHinman & Faust, J. Parasit. 19: 119-120, 1932.
Hodges, Nat. & Amer. Miller 62(3): 51, 1934.
McDaniel, Mich. Quar. B. 16: 168-169, 1934.
iO'Kane et al., N.H. TB 54, 1933, 23p.
Payne, Ent. News 43: 6-7, 1932.
iRessler, Nat. & Amer. Miller 62(3): 42, 1934.
iSanderson, Ins. Pests Farm ed. 3: 480-482, 1931.
Sumner, Col.-Wyo. Acad. Sci. J. 1(5): 77-78, 1933.
Twinn, Ent. Soc. Ont. R. 64: 80, 1933.
biValentine, J. Exp. Zool. 58: 165-227, 1931.
biWilcoxon & Hartzell, Boyce Thompson Inst. Contrib. 5: 115-127, 1933.
- Tenebrio obscurus F. (Dark mealworm)***
iBack & Cotton, USDA FB 1260 rev.: 22, 24, 1930.
iCotton, P. Ent. Soc. Wash. 32: 58, '30.
McDaniel, Mich. Quar. B. 16: 168-169, 1934.
- Tenebrio obscurus—Effect of thyroid on growth**
Rodeck, Col.-Wyo. Acad. Sci. J. 1(3): 59, 1931.
- Tenebrionidae**
Blaisdell, Trans. Amer. Ent. Soc. 59: 191-210, 1933.
- biSmith, Iowa Acad. Sci. P. 38: 259-265, 1931.
- Tenebroides mauritanicus (L.) (Cadelle)***
iBack & Cotton, YSDA FB 1260 rev.: 26-28, 1930.
Gray, Ent. Soc. Ont. R. 65: 67, 1934.
Hodges, Nat. & Amer. Miller 62(3): 51, 1934.
McDaniel, Mich. Quar. B. 16: 168, '34.
iSanderson, Ins. Pests Farm ed. 3: 479-480, 1931.
Twinn, Ent. Soc. Ont. R. 64: 79, 1933.
- Tenodera angustipennis**
iJones, Ent. News 44: 1-3, 1933.
Krauss, Hawaiian Ent. Soc. P. 8: 393, 1934.
Rehn, Ent. News 44: 4-5, 1933.
Williams, Hawaiian Ent. Soc. P. 8: 368, 1934.
- Tenodera sinensis (Chinese mantis)***
Britton, Conn. B. 338: 597-598, 1932.
Britton, Conn. B. 349: 445, 1933.
Bromley, Bklyn. Ent. Soc. B. 27: 196-201, 1932.
Bryan, Hawaiian Ent. Soc. P. 7: 378, 1931.
Engelhardt, Bklyn. Ent. Soc. B. 29: 23, 1934.
Felt, J. Ec. Ent. 26: 51, 1975, 1933.
Laurent, Ent. News 44: 39, 1933.

- Tenthes citatus**
nCresson, Trans. Amer. Ent. Soc. 56: 355, 1930.
- Tenthredella spp.**
nRoss, Ann. Ent. Soc. Amer. 24: 101-119, 1931.
- Tenthredinidae**
Balch, N.S. Dept. Lands & For. R. f. 1932: 49, 1933.
Rohwer & Middleton, P. Ent. Soc. Wash. 34: 93-98, 1932.
Ross, Ann. Ent. Soc. Amer. 24: 108-128, 1931.
Ross, Can. Ent. 64: 247-251, 1932.
iStep, Bees, Wasps, Ants: 192-208, '32.
bTaylor, Ann. Ent. Soc. Amer. 24: 451-466, 1931.
- Tenthredopsis**
Will, Penn. Acad. Sci. P. 7: 32-34, '33.
- Tephritis abstersa**
Cresson, Ent. News 42: 3-5, 1931.
- Tephritis bruesi**
inBates, Bklyn. Ent. Soc. B. 28: 168-169, 1933.
- Tephritis wolffi**
nCresson, Ent. News 41: 5, 1931.
- Tephritoides**
inBenjamin, USDA TB 401: 58-59, 1934.
- Tephroclystis albisignatus**
inHoffmann, Mex. Univ. Nac. Inst. Biol. Anal. 5: 205, 1934.
- Tephrosia crepuscularia**
Harrison & Garrett, J. Heredity 22: 324, 1931.
- Terapus balloui, nigratus**
nHinton, Ent. News 45: 270-272, 1934.
- Termes**
iLight et al., Cal. C. 318, 1930, 64p.
- Termes (Cyclotermes) almorensis**
inSnyder, PUSNM 82(16): 899, 1933.
- Termes (Termes) dehraduni**
inSnyder, PUSNM 82(16): 6-7, 1933.
- Termes flavipes**
Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(6): 30, 1931.
Watson, Fla. B. 232: 96, 1931.
iWatson & Berger, Fla. Ext. B. 67: 126-127, 1932.
- Termes (Termes) malabaricus**
iSnyder, PUSNM 82(16): 7-8, 1933.
- Termes occidentis**
bEmerson, Cal. Univ. Pub. Ent. 6(6): 191, 1933.
- †Termites**
Anderson, Mo. Bot. Gard. B. 19: 86, 87, 1931.
Antimite Co., Extermin. Log 1(2): 13, 1933.
Beall, B.C. Ent. Soc. P. 28: 33-35, '31.
bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 48-49, 1931.
iBolen, Pop. Sci. Month. 124(6): 6-7, 1934.
iBrinson, Purdue Agr. 27: 55, 61, 1933.
Brock, Cal. Agr. Mo. B. 19: 71-73, '30.
iBrown, Engin. News-Rec. 111: 221-224, 1933.
Brown, Extermin. Log 2(8): 12, 14, '34.
iBruce, E. L. Co., Memphis Prot. to For. Prod. against Attack by Termites: 7-9, 1931.
Burkett, Tex. Dept. Agr. B. 111: 209-210, 1932.
iComings, Amer. Architect 138(2585): 36-37, 116-117, 1930.
iDavis, Amer. Lumberm. 58(2922): 46-47, 1931.
Doane, Common Pests: 270-275, 1931.
iEades, Can. Dept. Int. For. Serv. B. 80: 98-100, 1932.
iEhrhorn, Mid-Pac. Mag. 42: 331-332, 1931.
Fellman, Extermin. Log 1(7): 5-6; 1(9): 11, 1933.
iFlint, Better Homes & Gardens 9(8): 33, 77, 1931.
Fullaway, Hawaii Bd. Comm. Agr. & For. Bien. R. f. 1930: 77-78, 91, '31.
Heath, Science n.s. 73: 431, 1931.
iHoward, Insect Menace: 58-64, 1931.
Hunt & Snyder, Engin. News-Rec. 110: 367, 1933.
iHuxley, Woman's Home Comp, 58(10): 11, 62, 67, 68, 1931.
biKirby, Cal. Univ. Pub. Zool. 33: 393-444, 1930; 36: 171-262, 1931.
Kofoid, Amer. Wood. Preserv. Assoc. 26: 298-306, 1930.
biKofoid et al, Termites and Termite control, 1934, 734p.
Kreer, Extermin. Log 2(12): 6-8, 14-15, 1934.

- Light, Cal. Agr. Mo. B. 19: 454-455, 1930.
- Light, Pan-Pac. Ent. 6: 178-180, 1930; 8: 5-9, 1931; 10: 159-160, 1934.
- biLight, Bernice P. Bishop Mus. B. 98: 73-86, 169-176, 1932.
- biLight, Cal. Univ. Pub. Ent. 6(5): 79-162, 1933.
- biMarcovitch, Tenn. B. 147: 10-12, 1933.
- Marlatt, USDA Ent. R. f. 1933: 37.
- iMorris, Amer. Lumberm. 60(2993): 27, 1933.
- Moulton, Cal. Agr. Mo. B. 20: 761, '32.
- iMoznette, USDA FB 1654: 54-56, '31.
- biPickwell, Cal. St. Teach. Coll. Insects: 150-153, 1932.
- bQuayle, Cal. B. 542: 21-22, 1932.
- Randall & Doody, Kofoid, Termites and Termite Control: 472-483, 1934.
- Ryan, Cal. Cit. 16: 258, 1931.
- Ryan, Los Angeles Co. Com. Agr. R. f. 1931: 35.
- Sanders, J. N.Y. Ent. Soc. 42: 243-247, 1934.
- Sanderson, Ins. Pests Farm ed. 3: 499-500, 1931.
- Shands, Extermin. Log 1(5): 10-11, (6): 6-7, 1933.
- Sharp, Extermin. Log 2(1): 11; 2(5): 11, 1934.
- Skinner & Coleman, Ind. Ext. R. 21: 46, 1932.
- iSmith, J. Kans. Ent. Soc. 7: 49, 1934.
- iSnodgrass, Smithson. Sci. Ser. 5: 125-151, 1930.
- iSnyder, La Hacienda 24: 154, 156, 158, 160, 1930.
- biSnyder, Pac. Sci. Cong. 4, P. 4: 143-155, 1930.
- iSnyder, Pan-Amer. Mag. 42: 261-269, 290, 1930.
- iSnyder, USDA FB 1472, rev. 1930. 22p.
- Snyder, P. Ent. Soc. Wash. 34: 98-100, 1932.
- iSnyder, PUSNM 82(16), 1933, 15p.
- Snyder, P. Biol. Soc. Wash. 46: 91-93, 1933.
- iSnyder, Extermin. Log 2(11): 5-6, 12, 1934.
- nSnyder, P. Biol. Soc. Wash. 47: 95-97, 1934.
- iSnyder, USDA FB 1472 rev. 1934. 21p.
- iSnyder & Zetek, Kofoid, Termites and Termite Control: 314-318, 1934.
- iThomas, Mid-Pac. Mag. 39: 409-416, 1930.
- i von Schrenk, Amer. Wood-Preserv. Assoc. P. 30: 321-335, 1934.
- Wallace, Ind. YB f. 1931: 827-829.
- Wallace, Ind. St. Dept. Conserv. R. Div. Ent. f. 1931: 31-33, 1932.
- Watson, Cit. Ind. 14: 17-18, 1933.
- iWatson & Berger, Fla. Ext. B. 67: 125-128, 1932.
- Weimer, W.Va. Acad. Sci. P. 5: 72, '31.
- Termites—Anatomy**
- iKofoid et al, Termites & Termite Control: 45-52, 53-83, 1934.
- Termites—Books**
- Bee, Agr. Student 40: 13-14, 1933.
- Termites—Building codes**
- iKofoid et al, Termites & Termite Control: 552-558, 1934.
- Long, Cal. Cult. 77: 497, 1931.
- Termites—Building construction**
- iHamilton, Architecture 68: 337-344, 1933; 69: 25-30, 1934.
- iSnyder, USDA FB 1472 rev.: 7-17, '34.
- Ohio Wkly. P. B. 17(24), 1932.
- Termites—Cannibalism**
- Andrew, Cal. Univ. Pub. Zool. 33: 457-458, 1930.
- Termites—Castes**
- Castle, Science n s 80: 314, 1934.
- Termites—Classification**
- Nichols, J. Ent. & Zool. 23: 1-2, 1931.
- Termites—Citrus trees**
- Thompson, Fla. St. Hort. Soc. P. 46: 84-87, 1933.
- Watson, Cit. Ind. 15(11): 9, 25, 1934.
- Termites—Detection**
- iKofoid et al, Termites & Termites Control: 671-674, 1934.
- Termites—Distribution**
- Kofoid et al, Termites & Termite Control: 42-44, 1934.
- Termites—Dry-wood**
- Kofoid et al, Termites & Termite Control: 197-200, 260-263, 1934.
- Termites—Dusting**
- Kofoid et al, Termites & Termite Control: 433-449, 1934.

Termites—Exposed structures

Kofoid et al, *Termites & Termite Control*: 692-694, 1934.

Termites—Exposure test

biHunt & Snyder, *Amer. Wood Preserv. Assoc. P.* 26: 318-338, 1930; P. 27: 279-285, 1931; P. 28: 282-300, 1932; P. 29: 398-400, 1933; P. 30: 398-410, 1934.

Termites—Factories

iStiner, *Food Ind.* 6: 461, 482, 1934.

Termites—Food of

Tate, *Ecology* 13: 244, 1932.

Termites—Fossil pellets

Light, *Cal. Univ. Pub. B. Dept. Geol. Sci.* 19(3): 75-80, 1930.

Termites—Fraudulent control

Ent. News 43: 20-22, 1932.

Termites—Fumigation

Kofoid et al, *Termites & Termite Control*: 450-471, 1934.

biSnyder, *Pac. Sci. Cong.* 4, P. 4: 144-145, 1930.

Termites—Insecticides—Paris green

bSmith, *Cal. Agr. Mo. B.* 19: 557-560, 1930.

Termites—Intestinal flora

bDickman, *Biol. B.* 61: 85-92, 1931.

Termites—Intestines

Kofoid et al, *Termites & Termite Control*: 94-99, 1934.

Termites—Legislation—Municipal

Kofoid et al, *Termites & Termite Control*: 703-705, 1934.

Termites—Legislation—State

Jacobsen & Browne, *Kofoid, Termites & Termite Control*: 706-710, 1934.

Termites—Losses caused by

iLong, *Sci. Amer.* 146: 102-103, 1932.

iOutdoor Ind. 1(4): 16, 1934.

Miss. St. Pl. Bd. Quar. B. 10: 18, 1930.

Termites—Lumber storage piles

Kofoid et al, *Termites & Termite Control*: 695-699, 700-702, 1934.

Termites—Nutrition

Hendee, *Sci. News Letter* 26: 89, 1934.

Termites—Oil fields

Horner & Rader, *Oil & Gas J.* 32: 41, 67, 1934.

Termites—Orchards

iEssig, *Tex. Cit.* 6(12): 10-11, 1930.

Termites—Paint—Tests

Randall et al, *Kofoid, Termites & Termite Control*: 418-432, 1934.

Termites—Panama—Test house

iWood Preserv. News 11(1): 4-5, 13, '33.

Termites—Paradichlorobenzene

O'Neill, *Ga. St. Ent. C.* 42: 10, 1932.

Termites—Parasites

Holloway, *Facts about Sugar* 27: 355, 1932.

Termites—Poison dusts

iKofoid et al, *Termites & Termite Control*: 433-449, 1934.

Termites—Pomelo trees

Weldon, *Pac. Rur. Press* 120: 464, 1930.

Termites—Protozoan parasites

iKirby in Hegner & Andrews, *Prob. & Meth. Res. Protozool.* 32-48, 1930.

iKofoid et al, *Termites & Termite Control*: 84-93, 1934.

iThone, *Sci. News Letter* 22: 187, 1932.

Termites—Quarantine—Federal

Kofoid et al, *Termites & Termite Control*: 711-712, 1934.

Termites—Railroad structures

iKofoid et al, *Termites & Termite Control*: 675-691, 1934.

Termites—Resistant materials—Tests

Kofoid et al, *Termites & Termite Control*: 487-513, 1934.

Termites—Safe houses

Reilly Tar & Chem. Corp., *Timberman* 35: 5, 13, 1934.

Termites—Self defense from ants

Science n.s. 77(2006 sup.): 8-9, 1933.

Termites—Spraying

iBrown, *Elect. West* 73(5): 18-19, 1934.

Cit. Leaves 11(9): 11, 1931.

Termites—Subterranean

iCislak, *Extermin. Log* 2(7): 12-14, '34.

iKofoid et al, *Termites & Termite Control*: 141-147, 178-186, 1934.

Termites—Sugar cane

Holloway, *Facts about Sugar* 27: 354-355, 1932.

Wolcott, *Ec. Ent. of West Indies*: 163-165, 1933.

Termites—Telephone poles

biKofoid et al, *Termites & Termite Control*: 603-670, 1934.

iBridgewater, *Elect. World* 100: 693, '32.

iBrown, *Elect. West* 73(5): 16-21, 1934.

Termites—Toxicity of Chemicals

iKofoid et al, *Termites & Termite Control*: 340-356, 1934.

Termites—Utility structures

iBrown, *Elect. West* 73(5): 16-21, 1934.

Termites—Wallboards and insulating materials

Kofoid et al, *Termites & Termite Control*: 534-536, 1934.

Termites—Wood preservation

iBrown, *Elect. West* 73(5): 16-21, 1934.

iBruce, E. L. Co., Memphis, Prot. to For. Prod. against Attack by Termites, 1931. 15p.

Brummitt, *Ladies' Home J.* 48(10): 166, 170, 1931.

iCislak, *Extermin. Log* 2(7): 12-14, '34.

iComings, *Amer. Architect* 138(2585): 36-37, 117, 1930.

iDay, *Concrete* 37(5): 41-43, 1930.

iDrefahl, *Amer. Wood Preserv. Assoc.* P. 26: 87-94, 1930.

iFellman, *Amer. Builder* 55: 40, 1933.

Harrison, *Oil, Paint & Drug Report.* 118(19): 57, 1930.

Hermes, *Pac. Rur. Press* 127: 136, 1934.

iHicks, *Chem. Markets* 28: 587-589, 1931.

biHunt & Snyder, *Amer. Wood Preserv. Assoc.* P. 28: 282-300, 1932; P. 29: 398-411, 1933; P. 30: 398-409, 1934.

Kreer, *Extermin. Log* 2(12): 6-8, 14-15, 1934.

Lesser, *Rev. Unidas* 47(6): 49-51, '31.

O'Neill, *Ga. St. Ent. C.* 42: 8-9, 1932.

Randall & Doody, *Kofoid, Termites & Termite Control*: 357-403, 1934.

iSnyder, *Pan-Amer. Mag.* 42: 261-269, 1930.

biSnyder, *Pac. Sci. Cong.* 4, P. 4: 146, 154-155, 1930.

iSnyder & Zetek, *Kofoid, Termites & Termite Control*: 404-417, 1934.

bThiessen, *Chem. Markets* 32: 325-326, 1933.

von Schrenk, *Amer. Wood-Preserv. Assoc.* P. 30: 330-335, 1934.

Termites—Wood preference tests

Kofoid et al, *Termites & Termite Control*: 532-533, 1934.

Termites—Wood, seasonal changes, susceptibility

Kofoid, *Termites & Termite Control*: 524-531, 1934.

Termites and ants—Waste engine oil or kerosene

Uichance, *Rur. N.Y.* 90: 723, 1931.

Termites and birds

iChapin, *Nat. Hist.* 31: 602-603, 1931.

Termites and cockroach evolution

Cleveland, *Sci. News Letter* 21: 40, '32.

Termites and distribution of treated timber

Randall, *Amer. Wood Preserv. Assoc.* P. 26: 307-318, 1930.

Termites and earthquake damage

iKofoid et al, *Termites & Termite Control*: 716-725, 1934.

Termites and fungi

Hendee, *Science n.s.* 77: 212-213, 1933.

iHendee, *Kofoid, Termites & Termite Control*: 100-107, 1934.

Hendee, *Science n.s.* 80: 316, 1934.

Termites and plants

iKofoid et al, *Termites & Termite Control*: 286-292, 1934.

Termites in building materials

iSmith, *Purdue Agr.* 24: 106, 119-120, '30.

Termites in buildings

iBritton, *Conn. B.* 349: 451-452, 1933.

De Long, *Ohio J. Sci.* 31: 177-180, '31.

iFellmann, *Amer. Builder* 55: 40, 1933.

iHamilton, *Architecture* 68: 337-344, 1933; 69: 25-30, 1934.

iHorner et al, *Kofoid, Termites & Termite Control*: 559-602, 1934.

Marlatt, *USDA Ent. R. f.* 1932: 29-30.

iNewton, *Good Housekeeping* 91(1): 58, 150, 153, 1930.

O'Neill, *Ga. St. Ent. C.* 42: 1-10, 1932.

iParks, *Ohio Ext. B.* 143, 1933: 8p.

iSnyder, *USDA Leaf.* 101, 1933: 8p.

Watson, *Fla. Grow.* 39(5): 30-31, 1931.

Amer. Architect 141(2): 91-92, 1932.

Architectural Rec. 76: 277, 1934.

USDA Off. Rec. 10: 91, 1931.

Termitidae

iBequaert, *Harv. Univ. Inst. Trop. Biol. Contrib.* 5(2): 819-823, 1930.

Snyder, *PUSNM* 82(16): 6-16, 1933.

Termopsinae—Revision of genera

biEmerson, *Cal. Univ. Pub. Ent.* 6(6): 165-195, 1933.

- Termopsis*, see *Zootermopsis*
- Terracaecilius pallidus*
in Chapman, J. N.Y. Ent. Soc. 38: 343-344, 1930.
- **Terrapin scale*, see *Lecanium nigro-fasciatum* Perg.
- Terrell-grass billbug*, see *Calendra minima*
- Tessaropa tenuipes*
Knull, Ent. News 43: 62, 1932.
- Tetanops aldrichi*
iKnowlton, Utah Leaf. 22, 1934. 2p.
Twinn, Ent. Soc. Ont. R. 65: 115, 1934.
- Tethina insularis*
nAldrich, Hawaiian Ent. Soc. P. 7: 395-396, 1931.
- Tetracnemus pretiosus*
biClancy, Cal. Univ. Pub. Ent. 6: 231-248, 1934.
biCompere & Smith, Hilgardia 6: 601-605, 1932.
bSmith, Ann. Ent. Soc. Amer. 26: 523-524, 1933.
Woglum, Cal. Fr. Grow. Exch. B. 7: 30, 1930.
Webber, What Res. has Done for Subtrop. Agr.: 27-28, 1934.
- Tetracnemus* sp.
J. Ec. Ent. 24: 1116, 1931.
- Tetragoneuria* spp.
bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 259-260, 1930.
iDavis, Bklyn. Ent. Soc. B. 28: 87-104, 1933.
biGloyd, Mich. Univ. Zool. Occ. Pap. 274, 1933, 5p.
Tinkham, Can. Ent. 66: 241, 1934.
- Tetragnathus microti*
iEwing, PUSNM 82(30): 9-10, 1933.
- Tetralonia atriventris*
Rau, Acad. Sci. St. Louis Trans- 28: 221, 1934.
- Tetralonia jacoti*
iCockerell, Amer. Mus. Nov. 452: 3, '31.
- Tetramorium caespitum* (L.) (Pavement ant)*
biHerrick & Griswold, N.Y. (C.) Ext. B. 202: 26, 1931.
- Tetramorium melanogyna pallidiventre*
nWheeler, Cal. Acad. Sci. P. ser. 4, 21: 117, 1934.
- Tetramorium sumillimum*
Swezey, Hawaiian Ent. Soc. P. 7: 381, '31.
- Tetramorium (Triglyphothrix) striatidens*
Smith, Ent. News 41: 21, 1931.
- Tetranychus bimaculatus*
Compton, J. Ec. Ent. 24: 1094-1097, 1931.
iHaseman & Jones, Mo. B. 342: 29, 1934.
Jones & Hanson, Wash. Ext. B. 180: 10, 1933.
iMcGregor, USDA FB 831 rev. 1934, 11p.
Spuler, Wash. B. 245: 32, 1930.
Watson, Fla. R. f. 1930: 72.
Webster, Better Fruit 26(8): 10, 1932.
Yothers & Keck, So. Flor. 29(25 i.e. 26): 7-8, 1930.
Weinard, P. Amer. Carnation Soc. 43: 46-47, 1934.
Wilcomb, Cal. Cult. 78: 570, 571, 1932.
biWolcott, Ec. Ent. of West Indies: 270-272, 1933.
- Tetranychus fragariae*
Mackie, Cal. Agr. Mo. B. 23: 340, 1934.
- Tetranychus ilicis*
Pettit, Mich. R. 44: 262-263, 1931.
- Tetranychus mcdanieli*
Gardner, Mich. R. f. 1931/1932: 30-31.
bHutson, J. Ec. Ent. 26: 425-430, 1933.
inMcGregor, P. Ent. Soc. Wash. 33: 193-194, 1931.
Pettit, Mich. Ent. R. f. 1931: 11-12.
- †*Tetranychus pacificus*
Burke, Cal. Agr. Mo. B. 21: 363, 1932.
Essig, Hist. of Ent.: 83, 1931.
Hutchison, Cal. R. f. 1929/1930: 65-66, 1931.
iLockwood, Cal. Agr. Mo. B. 18: 761-763, 1929.
Merrill, Cal. R. f. 1928/1929: 73, 1930.
iSimmons, Reed & McGregor, USDA C. 157: 63-66, 1931.
- Tetranychus sexmaculatus* Riley (Six-spotted mite)*
Amer. Agr. Chem. Co., Rev. de Agr. Cuba 13(6): 44-45, 1931.
bQuayle, Cal. B. 542: 11-12, 1932.
Watson, Fla. Grow. 40(5): 22, 1932.
- †*Tetranychus* spp.
Essig, Hist. of Ent.: 82-88, 1931.
Hamilton, N.J. C. 334, 1934, 4p.
McDaniel, Mich. Quar. B. 16: 244, '34.
McWhorter et al., Oreg. Ext. B. 470: 3, 1934.

- Webster, Wash. St. Hort. Assoc. P. 27: 21, 1931.
- †*Tetranychus telarius* (L.) (Common red spider)*
- Baldwin, Pineapple News 4(2): 32, '30.
- iBall, Boyden & Stone, Fla. B. 250: 19-21, 1932.
- Beal, N.Y. (C.) Ext. B. 213: 29, 1931.
- Beattie, USDA FB 1431 rev.: 21, 1930.
- bBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 33-35, 1931.
- Brannen, Ark. B. 297: 33-34, 1934.
- Braucher, Diamond Walnut News 16(2): 2, 1934.
- Brooks, Watson & Mowry, Fla. Coop. Ext. B. 63: 42-43, 1932.
- Burke, Cal. Agr. Mo. B. 21: 363, 1932.
- Caesar, Ont. B. 355: 28, 1930.
- Chambers, J. Ec. Ent. 24: 646-648, 1931.
- Chambers, Wis. Dept. Agr. B. 115: 42, 1931.
- iChambers & Thompson, Wis. Dept. Agr. B. 123: 42, 1931; B. 145: 59, 1933.
- Compton, Ill. St. Nat. Hist. Surv. Ent. ser. C. 12: 75-78, 1930.
- Compton, J. Ec. Ent. 24: 1094-1097, 1931.
- Condit & Cruess, La Hacienda 27: 261, 1932.
- Conklin, N.H. Hort. Soc. R. 24: 127, 1934.
- Cook & Walker, Va. Truck B. 79: 1063, 1932.
- Crosby et al, N.Y. (C.) Ext. B. 306: 7, 13, 1934.
- iDavis, Ind. Ext. B. 168: 32-33, 1930.
- Dean, Kans. St. Hort. Soc. Bien. R. 40: 152-153, 1930; R. 44: 48, 1934.
- Dell, Kans. St. Hort. Soc. Bien. R. 42: 50-52, 1934.
- DeLong, Ohio Veg. Assoc. P. 19: 80-91, 1934.
- iDietz, Amer. Nurseym. 53: 240, 1931.
- Eaton, Nat. Shade Tree Conf. P. 8: 53, 1932.
- iFolsom, USDA FB 1688: 15-16, 1932.
- iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 64-65, 1934.
- iGilbert & Popenoe, USDA FB 1371 rev.: 5-6, 1930.
- Guba, Amer. Carnation Soc. P. 42: 44-51, 1933.
- Haegeler, Ida. St. Hort. Assoc. Conv. 38: 79-80, 1933.
- Hamilton, N.J. C. 334: 2, 1934.
- Harned, USDA YB f. 1933: 127.
- Hedrick, N.Y. (Gen.) R. 53: 50-51, '34.
- Houser, Nat. Nurseym. 38(3): 6, 1930.
- Houser, Ohio B. 454: 70-71, 1930.
- iKnowlton, Utah Leaf. 20: 1934, 2p.
- L.S., Flor. Rev. 65(1686): 118, 120, '30.
- Liston, Kans. Ent. Com. Bien. R. 13: 9, 1932; R. 14: 6, 1934.
- iLockwood, Cal. Agr. Mo. B. 18: 761-763, 1929.
- iMcDaniel, Mich. Sp. B. 214: 36-38, 1931.
- Mahoney, Cal. Agr. Mo. B. 19: 452-453, 1930.
- Mote, Pac. Hop Grow 2(3): 4, 1934.
- iMunro & Riddle, N.Dak. C. 42 rev.: 48-49, 1933.
- Newcomer, Wash. St. Hort. Assoc. P. 25: 150-153, 1929.
- Newcomer, Oreg. St. Hort. Soc. R. 22: 41-45, 1930; R. 23: 52-56, 1932.
- iNewcomer, USDA C. 270: 15-19, 45-46, 50-51, 1933.
- Oelschig, Ga. St. Hort. Soc. P. 54: 64-65, 1930.
- Perry, J. For. 28: 864-867, 1930.
- iPettit & Hutson, Mich. C.B. 137: 36-37, 1931.
- Pierstorff & Parks, Ohio Ext. Pl. Dis. & Ins. Notes 1(1): 1-2, 1930.
- Pope, Hawaii B. 61: 34, 1930.
- Pring, Mo. Bot. Gard. B. 19: 39-40, 1931.
- iQuaintance & Siegler, USDA FB 1270 rev.: 66, 1931.
- Regan, Wash. St. Hort. Assoc. P. 25: 131, 1929.
- Richardson, J. Ec. Ent. 25: 412, 1932.
- Ross & Putman, Ent. Soc. Ont. R. 64: 36, 1933.
- Ruggles, Minn. Hort. 61: 132, 1933.
- iSanderson, Ins. Pests Farm ed. 3: 97-98, 279-280, 1931.
- Smith, Cal. B. 505: 34, 1931.
- Smith, J. Kans. Ent. Soc. 5: 86-87, '32.
- biSoraci, N.J. Dept. Agr. C. 243: 59-60, 1934.
- Spuler, Wash. B. 245: 32, 1930.
- Spuler, Wash. B. 260: 33-34, 1931.

†*Tetranychus telarius* (L.) *Cont'd*

- Twinn, Ent. Soc. Ont. R. 65: 121-122, 126, 1934.
 Wakeland, Ida. St. Hort. Assoc. P. 36: 160, 1931.
 Walker, Nat. Pecan Grow. Assoc. P. 32: 16-21, 1933.
 Wallace, Ind. Dept. Conserv. R. 11: 52, 1929.
 Watson, Fla. B. 232: 77-79, 85-86, '31.
 Webster, Wash. St. Hort. Assoc. P. 27: 17-18, 1931.
 Whitcomb, Mass. B. 305: 36, 1934.
 White, J. Ec. Ent. 26: 633, 1933.
 Whitehouse et al., Md. R. 43: 215, 1930.
 Wilson, Fla. R. 45: 77, 1931.
 biWilson, Fla. TB 234: 1931, 20p.
 Winter, Minn. Hort. 59: 176, 1931.
 Woglum, Cal. Fr. Grow. Exch. B. 7: 5-6, 8, 17, 26, 1930; B. 8: 4-5, 15, 18-20, 1931.
 Wright, Cal. Agr. Mo. B. 21: 218-220, 1932.
 Yothers, J. Ec. Ent. 25: 135, 1932.
Tetranychus telarius—Colloidal sulphur
 Alexander & Young, Science n.s. 74: 314-315, 1931.
Tetranychus telarius—Fumigation
 biHartzell & Wilcoxon, Boyce Thompson Inst. Contrib. 2: 512-522, 1930.
Tetranychus telarius—Glue and water
 Robertson, N.Dak. St. Hort. Soc. R. 29: 19, 1932.
 Trudo, Flow. Grow. 20: 117, 1933.
Tetranychus telarius—Lime sulphur
 Popenoe, Flow. Grow. 20: 175, 1933.
 Watson, Fla. Grow. 39(1): 30, 1931.
Tetranychus telarius—Naphthalene solution
 biWilcoxon, Hartzell & Youden, Boyce Thompson Inst. Contrib. 5: 461-469, 1933.
Tetranychus telarius—Nicotine sulphate and fish oil soap
 Madlinger, Tenn. St. Hort. Soc. P. 28: 76, 1932.
Tetranychus telarius—Nicotine and rotenone vs. pyrethrin
 bRichardson, J. Ec. Ent. 25: 592-599, 1932.
Tetranychus telarius—Oil
 Jardine, Oreg. R. f. 1928/1930: 138.

Tetranychus telarius—Selenium

- bGnadinger, Indus. & Engin. Chem. 25: 633-637, 1933.
Tetranychus telarius—Selocide
 Gnadinger, Market Grow. J. 50: 233, 1932.
 Lamiman, Pac. Rur. Press 125: 94, '33.
Tetranychus telarius—Sprays and spraying
 iMcGregor, USDA FB 831 rev.: 10, '34.
 Matthews, Nat. Nurserym. 42(8): 5, 1934.
 Mumford, Ill. R. 45: 143-144, 1932.
 Webster, Wash. St. Hort. Assoc. P. 27: 20, 1931.
 Webster, Better Fruit 26(8): 11, 1932.
Tetranychus telarius—Sulphur
 Gilbert & Popenoe, USDA FB 1371 rev.: 6-7, 1934.
 iMcGregor, USDA FB 831 rev.: 10, '34.
 Poole, South. Cult. 91(8): 11, 1933.
Tetranychus telarius and temperature
 Whitcomb, Mass. B. 293: 34, 1933.
Tetranychus yothersi
 Watson, Fla. Ent. 15: 71, 1932.
Tetranychus yumensis
 inMcGregor, P. Ent. Soc. Wash. 36: 256-259, 1934.
Tetraopes femoratus
 bSnyder, Penn. Acad. Sci. P. 8: 51-52, 1934.
Tetraopes tetrophthalmus (Forst.) (Red milkweed beetle)*
 iGoldman, Trans. Amer. Ent. Soc. 59: 98, 1933.
 bSnyder, Penn. Acad. Sci. P. 8: 51, 1934.
Tetrastichus ainsliei
 bGahan, USDA Misc. Pub. 174: 144-145, 1933.
Tetrastichus asparagi
 Drake & Harris, Iowa C. 134: 5, 1932.
Tetrastichus bruchophagi
 Swezey, Hawaiian Ent. Soc. P. 7: 383, 1931; P. 8: 381, 1934.
Tetrastichus carinatus
 biGahan, USDA Misc. Pub. 174: 138-142, 1933.
Tetrastichus giffardianus
 bMason, J. Ec. Ent. 27: 891-897, 1934.
Tetrastichus haitiensis
 iBruner, Rev. de Agr. Cuba 14(19): 35-36, 1934.

- Tetrastichus oecanthivorus**
 Gahan, Ann. Ent. Soc. Amer. 25: 743-744, 1932.
- Tetrastichus oncideridis**
 nGahan, Ann. Ent. Soc. Amer. 25: 745-746, 1932.
- Tetrastichus pallidocinctus**
 nGahan, Ann. Ent. Soc. Amer. 25: 744-745, 1932.
- Tetrastichus productus**
 biGahan, USDA Misc. Pub. 174: 143-144, 1933.
- Tetrastichus sp.**
 Swezey, Hawaiian Ent. Soc. P. 7: 390-391, 1931.
- Tetrastichus turionum**
 bDowden, Ann. Ent. Soc. Amer. 27: 600, 1934.
- Tetruaresta bartica**
 inBates, Psyche 40: 53-55, 1933.
- Tettigidae, see Acrydiinae**
- Tettigidea lateralis**
 Hebard, Minn. TB 85: 23, 1932.
- Tettigidea spicatoides**
 inHebard, Trans. Amer. Ent. Soc. 58: 228-229, 1932.
- Tettigonia antica, see Draeculacephala antica**
- Tettigonia minor, see Draeculacephala minor**
- Tettigonia producta, see Draeculacephala producta**
- Tettigoniidae**
 iChamplain, Nature Mag. 18: 95-96, 1931.
 biFulton, Ent. News 44: 270-275, 1933.
 Poulton, Science n.s. 74: 353, 1931.
- Tettigoniinae**
 iCaudell, Pan-Pac. Ent. 10: 151-158, 1934.
- Teucholabis spp.**
 nAlexander, Ann. Ent. Soc. Amer. 23: 738-739, 1930; 24: 633-634, 1931; 27: 69-70, 1934.
 nAlexander, J. N.Y. Ent. Soc. 38: 114-115, 1930; 39: 117-119, 1931.
 inAlexander, Amer. Mus. Nov. 491: 15-16, 1931.
 nAlexander, P.R. Dept. Agr. J. 16: 386, 1932.
- Thalassius sp. catching fish.**
 iGudger, Nat. Hist. 31: 60, 1931.
- Thalessa flaviceps, see Rhyssa flaviceps**
- Thalessa lunator**
 iMcDaniel, Mich. Sp. B. 238: 36-37, 1933.
 iOutdoor Ind. 1(6): 15, 1934.
- Thallium sulphate see Insecticides—Thallium sulphate**
- Thamnotettix chrysothamnus**
 inDeLong & Davidson, J. N.Y. Ent. Soc. 42: 222, 1934.
- Thamnotettix geminatus and Aster yellows**
 biSeverin, Hilgardia 8: 352-361, 1934.
- Thamnotettix montanus and Yellows**
 biSeverin, Hilgardia 8: 341-349, 1934.
- Thamnotettix nigrifrons**
 biOsborn, USDA C. 241: 21-22, 1932.
- Thamnotettix simplex**
 Oman, J. Wash. Acad. Sci. 21: 433, '31.
- Thanaos avinoffi**
 McDunnough, Can. Ent. 64: 270, 1932.
- Thanaos icellus**
 Saunders, N.Y. St. Mus. Hdbd. 13: 256-261, 1932.
- Thanasimus trifasciatus**
 Knoll, Ent. News 43: 42, 1932; 45: 207, 1934.
- Thecabius—Key**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 27: 233, 1934.
- Thecabius populi-monilis**
 Miller, Can. Ent. 65: 5, 1933.
- Thecla echion**
 iCarter, Hawaiian Ent. Soc. P. 8: 395-397, 1934.
 Swezey, Hawaiian Ent. Soc. P. 7: 342, 1931.
- Thecla halesus**
 Haskin, Ent. News 44: 72-74, 1933.
- Thecla lutzi**
 inHuntington, BAMNH 63: 211-212, 1932.
- Thecla melinus clarionensis**
 nVan Duzee, Cal. Acad. Sci. P. ser. 4: 21, 143-144, 1933.
- Thecla siva**
 Cockerell, Ent. News 45: 51, 1934.
- Thecla watsoni**
 inHuntington, BAMNH 63: 213, 1932.
- Thecocarcelia**
 nTownsend, J. N.Y. Ent. Soc. 40: 471, 1932.

- Thecodiplosis piniradiatae**
 Burke, Pan-Pac. Ent. 6: 147, 1930.
 Burke, Cal. Agr. Mo. B. 21: 362-363, 1932.
 Burke, Nat. Shade Tree Conf. P. 9: 58-59, 1933.
- Theileria parva**
 Cowdry & Ham, Science n.s. 72: 461-462, 1930.
- Thelairalia**
 nCurran, Fam. & Genera of North Amer. Diptera: 470-471, 1934.
- Thelastoma (Thelastoma) macramphidum papilliferum**
 in Christie, J. Agr. Res. 42: 472-477, '31.
- Thelia bimaculata**
 biAndrews, Physiol. Zool. 3: 469-477, 1930.
- Thelodiscoprosopa, T. formosana**
 nTownsend, J. N.Y. Ent. Soc. 40: 444-445, 1932.
- Thelycarcellia, T. thrix**
 nTownsend, J. N.Y. Ent. Soc. 40: 475, 1932.
- Theobaldia—Key**
 biMatheson, Mos. of North America: 177-186, 1929.
- Theobaldia alaskaensis, impatiens**
 iMail, Mont. B. 288: 47-49, 1934.
- Theobaldia incidens**
 Hearle, N.J. Mos. Exterm. Assoc. P. 19: 14-15, 1932.
 Mail, Mont. B. 288: 49-50, 1934.
- Theobaldia inornata**
 Mail, Mont. B. 288: 50-51, 1934.
 Stearns, MacCreary & Newhouse, Del. B. 181: 85, 1933.
- Theobaldia maccrackenae**
 iRipstein, Mex. Univ. Nac. Inst. Biol. Anal. 5: 249-257, 1934.
- Theobaldia melanura**
 iBishopp et al, P. Ent. Soc. Wash. 35: 5, 1933.
 Stearns et al, Del. B. 181: 85, 1933.
- Theobaldia morsitans**
 Twinn, N.J. Mos. Exterm. Assoc. P. 18: 22, 1931.
- Therioaphis tectae**
 in Tissot, Fla. Ent. 16: 11-12, 1932.
- Therobia domestica Pack. (Firebrat)***
 bAdams, J. N.Y. Ent. Soc. 41: 557-562, 1933.
- Adams, Iowa Acad. Sci. P. 40: 217-219, 1934.
- Iddings, Ida. B. 179: 29, 1931.
- Spencer, Can. Ent. 62: 1-2, 1930.
- Twinn, Ent. Soc. Ont. R. 64: 79, 1933;
 R. 65: 128, 1934.
- biWakeland & Waters, Ida. B. 185, 1931, 15p.
- Thersilochus conotracheli**
 bDozier, Williams & Butler, Del. B. 175: 39, 1932.
- Thespius duidensis**
 in Bell, Amer. Mus. Nov. 555: 14-15, '32.
- *Thief ant, *see* *Solenopsis molesta* (Say)
- Thinophilus spp.**
 nVan Duzee, Can. Ent. 62: 84, 1930.
 nVan Duzee, Amer. Mus. Nov. 521: 9-11, 1932.
- Thiodia amphorana**
 Clarke, Can. Ent. 66: 180, 1934.
- Thiodia implicata**
 nHeinrich, PUSNM 79(13): 7, 1931.
- Thionia borinquensis**
 in Dozier, Amer. Mus. Nov. 510: 18-19, '31.
- Thionia gibbicollis**
 in Dozier, Amer. Mus. Nov. 510: 17-18, 1931.
- Thiotricha—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 122, 1930.
- *Thistle aphid, *see* *Anuraphis cardui* (L.)
- Thistle butterfly, *see* *Cynthia cardui*
- Tholeria reversalis**
 iComstock & Dammers, So. Cal. Acad. Sci. B. 32: 35-37, 1933.
 Hyslop, J. Ec. Ent. 27: 559, 1934.
 Keifer, Cal. Agr. Mo. B. 20: 617, 1931.
 iMcKenzie, Cal. Agr. Mo. B. 22: 410-412, 1933.
- Tholerostola evippella**
 in Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 364, 1931.
 in Forbes, P.R. Dept. Agr. J. 15: 364, '31.
- Thomas Say foundation**
 Needham, Science n.s. 76: 567-568, '32.
- Thomisidae**
 iGertsch, Amer. Mus. Nov. 593: 1933, 22p; Nov. 707, 1934, 25p.
 Newport, Univ. Okla. Biol. Surv. Pub. 4: 38, 1932.
- Thoon viridis**
 in Bell, J. N.Y. Ent. Soc. 38: 152-153, '30.

- Thoracaphis, T. umbellulariae**
binEssig, Cal. Univ. Pub. Ent. 6: 3-8, '32.
- Thoracophorus fletcheri**
Fletcher, Can. Ent. 62: 190, 1930.
- Thorn limb borer, see Saperda fayi**
- Thorybes bathyllus**
Tietz, Ent. News 43: 134, 1932.
- Thorybes confusus**
Clark, P. Ent. Soc. Wash. 36: 263, '34.
- Thorybes mexicanus**
iComstock & Dammers, So. Cal. Acad. Sci. B. 32: 110-112, 1933.
- Thorybes pylades**
Saunders, N.Y. St. Mus. Hdbk. 13: 261-262, 1932.
- Thosea cinereamarginata**
Farley, Rev. de Agr. Cuba 12(6): 34, 1930.
- Thracides braesia**
Williams & Bell, Trans. Amer. Ent. Soc. 60: 128, 1934.
- Thracides (?) currani**
inBell, J. N.Y. Ent. Soc. 39: 528-529, '31.
- Thracides hermesia**
Williams & Bell, Trans. Amer. Ent. Soc. 60: 128, 1934.
- Thraulius albertanus**
nMcDunnough, Can. Ent. 63: 82, 1931.
- *Three-banded leafhopper, see Erythro-neura tricincta Fitch**
- *Three-cornered alfalfa hopper, see Stictocephala festina (Say)**
- Three-lined leaf roller, see Pandemis limitata**
- *Three-lined potato beetle, see Lema trilineata (Oliv.)**
- Thrincopyge ambiens—Gregarious habits**
Smyth, J. Kans. Ent. Soc. 7: 109-110, 1934.
- Thripoctenus femoratus**
nGahan, Ann. Ent. Soc. Amer. 25: 747-748, 1932.
- Thripoctenus russelli**
Bailey, Hilgardia 7: 498-503, 1933.
bFullaway & Dobrosky, Pac. Sci. Cong. 5, P. 5: 3439-3444, 1934.
- Thripoctenus sp.**
Fullaway, Hawaiian Ent. Soc. P. 8: 365, 1934.
- Thripoctenus vinctus**
Fullaway, Hawaiian Acad. Sci. P. 8: 21-22, 1933.
- bFullaway & Dobrosky, Pac. Sci. Cong. 5, P. 5: 3439-3444, 1934.
- nGahan, Ann. Ent. Soc. Amer. 25: 746-747, 1932.
- †**Thrips**
Bailey, Ent. News 44: 14-15, 1933.
Beal, N.Y. (C.) Ext. B. 220: 27-28, '32.
Chambers, Wis. Hort. 22: 172-173, '32.
Compton, Ill. St. Hort. Soc. Trans. 64: 430, 1930.
Connor, N.J. C. 258: 20, 1932.
Eddy & Hillenmeyer, Ky. St. Hort. Soc. Trans. 79: 161-164, 1934.
iHamilton, N.J. Gard. 2: 19-22, 1931.
Hamilton, B. Amer. Dahlia Soc. 9(64): 14, 1933.
Hawthorn, Tex. C. 65: 8, 1932.
Hornberger, Hornberger's Glad. Ann. 1933: 2-6.
Langeler, Glad. Rev. 9: 320, 1932.
Leonard, J. Ec. Ent. 25: 934-935, 1932.
McDaniel, Mich. Sp. B. 214: 42-45, 1931.
- bQuayle, Cal. B. 542: 23-25, 1932.
Regan, Wash. St. Hort. Assoc. P. 25: 134, 1929.
Thomas, Gaines & Fletcher, Tex. R. 47: 48, 1934.
Van Hermann, La Hacienda 25: 332-334, 1930.
Watts & Cartwright, S.C. R. 46: 82-83, 1933.
Wright, New Eng. Glad. Soc. YB f. 1934: 111-113.
- Thrips—Figs**
iSimmons, Reed & McGregor, USDA C. 157: 66-67, 1931.
- Thrips—Gladiolus**
Collins, Can. Glad. Soc. B. 9: 65-66, 1932.
iDustan, Can. Glad. Soc. Quar. Oct. 1934: 13-17.
iDustan & Bryce, Can. Glad. Soc. B. 9: 61-64, 1932.
iHuff, Glad. Rev. 9: 317-320, 1932.
Palmer, Can. Glad. Soc. Quar. Jan. 1934: 8-10.
iRoss, Can. Glad. Soc. B. 8: 112-113, 1931.
iVogan, Can. Glad. Soc. B. 9: 51-54, 1932.

Thrips—Parasites

Fullaway, Hawaiian Ent. Soc. P. 8: 29, 1932.

Pemberton, Hawaiian Ent. Soc. P. 7: 481-482, 1931.

Thrips—Rearing

biBailey, J. Ec. Ent. 25: 1194-1196, 1932.

Thrips—Roses

Tissot, Fla. Grow. 39(3): 16, 1931.

Watson, Fla. Grow. 38(5): 35, 1930; 40(4): 21, 1932.

Ziegler, Fla. Grow. 40(5): 22, 1932.

Thrips—Seedling cotton

iGaines, J. Ec. Ent. 27: 740-743, 1934.

iWatts, S.C. R. 44: 71-72, 1931; R. 45: 69-71, 1932.

Thrips—Sprays and spraying

Wright, N.Eng. Glad. Soc. YB f. 1934: 111-113.

Thrips herricki

Hood, Pan-Pac. Ent. 7: 171-172, 1931.

Thrips oklahomae

inWatson, Univ. Okla. Biol. Surv. Pub. 3: 342-343, 1931.

Thrips pallidicollis

inHood, Pan-Pac. Ent. 9: 173-174, 1933.

Thrips panicus

Swezey, Hawaiian Ent. Soc. P. 7: 340, 1931.

Thrips pectinatus

inHood, P. Ent. Soc. Wash. 34: 38-40, 1932.

Thrips sambucifloris

inHood, Pan-Pac. Ent. 9: 177-182, 1933.

Thrips sieversiae

inHood, Pan-Pac. Ent. 9: 175-177, 1933.

Thrips spp.

iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 49-50, 1934.

†Thrips tabaci Lind. (Onion thrips)*

Agete, Rev. de Agr. Cuba 14(14): 16-20, 1933.

biBailey, Cal. Agr. Mo. B. 23: 149-152, 1934.

Beattie, USDA FB 354 rev.: 25, 1930.

Bourne, Mass. B. 260: 349-350, 1930; B. 271: 256-257, 1931; B. 280: 215-216, 1932; B. 293: 30, 1933; B. 305: 30-31, 1934.

Britton, Conn. B. 344: 136, 1933.

Britton, Conn. Veg. Grow. Assoc. P. 21: 41, 1934.

iCaesar, Ont. Dept. Agr. B. 359: 52-54, 1931.

Carter & Sakimura, Ecol. Soc. Amer. B. 12(2): 2, 1931.

Clark, Tex. R. 47: 238, 1934.

Compton, Ill. C. 391: 33-34, 1932.

Cook & Walker, Va. Truck B. 79: 1062, 1932.

Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 22, 69-70, 1933; B. 278: 20, 55-56, 1934.

Doane, Common Pests: 219-220, 1931.

iDustan, Can. Dept. Agr. Ent. B. 32: 60-61, 1932.

Eddy & Clark, Assoc. South. Agr. Work. P. 31: 422, 1930.

Gilbert & Popenoe, USDA FB 1371 rev.: 28-29, 1934.

Hamilton, N.J. R. 52: 220-222, 1931.

Hedrick, N.Y. (Gen.) R. 50: 65, 1931.

Jones, Tex. R. 46: 52, 1933.

Ladd, N.Y. (C.) R. 46: 110-111, 1933.

Leonard, P.R. Ins. R. f. 1929-1930: 118, 1931.

List, Col. R. 45: 45, 1932.

Lloyd, Ill. C. 410: 16, 1933.

Lockwood, Cal. Agr. Mo. B. 18: 765-766, 1929.

iMcDaniel, Mich. Sp. B. 214: 43, 1931.

MacLeod, N.Y. (C.) R. 44(Pt. 2): 52, 1931; R. 46: 110-111, 1933.

Maughan, J. Ec. Ent. 25: 662-670, 1932: 27: 109-112, 1934.

Moulton, J. Ec. Ent. 24: 1035, 1931.

Mumford, Ill. R. 43: 146, 1930.

Parker, Va. B. 78: 1050, 1932.

iPettit, Mich. Ext. B. 117: 13, 1931.

Skinner, Ind. R. 47: 33-34, 1934.

Slate, Conn. B. 357: 127, 1934.

Sleesman, Ohio B. 497: 76-77, 1931.

Stoutamire, Fla. Dept. Agr. B. 39 n.s.: 17, 1930.

Turner & Friend, Conn. B. 360: 480-481, 1934.

Twinn, Ent. Soc. Ont. R. 64: 68, 1933; R. 65: 117, 1934.

iWatson, Fla. B. 232: 74-75, 1931.

Watson, Fla. Grow. 41(2): 23, 1933.

Watson, Fla. R. f. 1934: 55.

Watts, J. Ec. Ent. 27: 1158-1159, 1934.

Williams, Ohio B. 532: 41-42, 1934.

Thrips tabaci—Fumigation

biHartzell & Wilcoxon, Boyce Thompson
Inst. Contrib. 2: 512-522, 1930.

Thrips tabaci—Naphthalene

iMaughan, J. Ec. Ent. 26: 143-147, '33.

Thrips tabaci—Nicotine sulphate

Brannon, J. Ec. Ent. 25: 1112-1113,
1932.

Jones, Tex. R. 47: 51-52, 1934.

Sandsten, Col. R. 47: 17, 1934.

Thrips tabaci—Parasites

Fullaway, Hawaiian Acad. Sci. P. 8:
21-22, 1933.

bFullaway & Dobrosky, Pac. Sci. Cong.
5, P. 5: 3439-3444, 1934.

Thrips tabaci—Pyrethrol and water

Lacroix, Conn. B. 350: 498-499, 1932.

Thrips tabaci—Rearing

bSakimura & Carter, Ann. Ent. Soc.
Amer. 27: 341-342, 1934.

Thrips tabaci—Resistant onion plants

biJones et al, Hilgardia 8: 215-232, 1934.

Thrips tabaci—Seedling cotton

iEddy, J. Ec. Ent. 23: 704-708, 1930.

Thrips tabaci—Snap beans

Brannon, J. Ec. Rnt. 25: 1112-1113, '32.

Thrips tabaci—Spraying

Mumford, Ill. R. 43: 146, 1930; R. 45:
140, 1932.

Thrips tabaci—Tobacco

bCarter, J. Ec. Ent. 25: 1031-1035, 1932.

Thrips tabaci and Empusa

Bourne & Shaw, J. Ec. Ent. 27: 860-
861, 1934.

Thrips tabaci and Pineapple yellow spot

biCarter, J. Ec. Ent. 25: 1031-1035, 1932.

biLinford, Pineapple News 4: 43-51,
1930.

biLinford, Pineapple Quar. 1: 53-61, '31.
Linford, Science n.s. 73: 263, 1931.

biLinford, Phytopath. 22: 323-324, 1932.
Olsen, Hawaiian Ent. Soc. P. 8: 26, '32.

iPratt, Pineapple News 4: 65-68, 1930.
biSakimura, J. Ec. Ent. 25: 885-891, '32.

Thrips tabaci and plant diseases

biKunkel, Que. Soc. Prot. Pl. R. 25/26:
29, 1934.

Thrips tabaci and Tomato mosaic

Cleveland, Ind. B. 351: 20-21, 1931.

Thrips thalictri

inHood, Bklyn. Ent. Soc. B. 26: 154-
159, 1931.

Thripsaphis ballii

iGillette & Palmer, Ann. Ent. Soc.

Amer. 24: 909-910, 1931.

Thripsaphis (Peltaphis) hottesi

inFrison & Ross, Can. Ent. 65: 152-154,
1933.

Thripsaphis producta, verrucosa

iGillette & Palmer, Ann. Ent. Soc.

Amer. 24: 910-911, 1931.

Throat botfly, see Gastrophilus nasalis*Throscoryssa citri**

biClausen, USDA TB 252: 5-11, 1931.

Clausen, Cit. Leaves 13(4): 11, 1933.

Thrypticus flavicornis, insulanus

nVan Duzee, Amer. Mus. Nov. 655: 13-
14, 1933.

Thrypticus parvulus

nVan Duzee, Can. Ent. 62: 86-87, 1930.

Thrypticus scutellatus

inVan Duzee, BAMNH 61: 184-185, '31.

Thyanta—Cuba—Key

Barber & Bruner, P.R. Dept. Agr. J.
16: 259, 1932.

Thyanta cubensis

binBarber & Bruner, P.R. Dept. Agr. J.
16: 257-258, 1932.

Thyanta custator

biBaker, Can. J. Res. 4: 200-201, 1931.

Thyanta punctiventris

Blatchley, Trans. Amer. Ent. Soc. 60:
4, 1934.

Thyanta rugulosa

Barber & Bruner, P.R. Dept. Agr. J.
16: 259, 1932.

Thyanta similis

nVan Duzee, Cal. Acad. Sci. P. ser. 4,
21: 26-27, 1933.

Thyce bidentata

nFall, J. N.Y. Ent. Soc. 40: 201-203,
1932.

Thylochromus nitidulus

Blatchley, Trans. Amer. Ent. Soc. 60:
8, 1934.

Thylodrias contractus

Metcalf, J. Ec. Ent. 26: 509-510, 1933.

bTwinn, Can. Ent. 64: 163-165, 1932.

Thymochares, T. galeatus

inRehn, P. Acad. Nat. Sci. Phila. 81:
477-481, 1929.

Thyreocorinae—Cuba—Key

Barber & Bruner, P.R. Dept. Agr. J.
16: 233, 1932.

Thyreus abbotti

McDaniel, Mich. Sp. B. 243: 48, 1933.

Thyridopteryx ephemeriformis (Haw.) (Bagworm)*

iBade, Gard. Chron. Amer. 38: 13, 1934.

Bailey, Cult. Conifers North Amer.: 353-354, 1933.

Clark, J. Ec. Ent. 25: 137, 1932.

Davis, Ind. Acad. Sci. P. 39: 299, 1930.

Davis, Ind. Ext. B. 168: 14, 1930.

Madlinger, Tenn. St. Hort. Soc. P. 28: 76, 1932.

Matthews, Nat. Nurseryman 42(8): 5, 1934.

iMusgrave, Purdue Agr. 27: 78, 1933.

iSheaffer, Ind. Dept. Conserv. Div. Ent. Pub. 103: 12-13, 1930.

Smith, J. Kans. Ent. Soc. 5: 73, 1932.

biSoraci, N.J. Dept. Agr. C. 243: 7-8, 1934.

Thyrocopa peleana

inSwezey, Hawaiian Ent. Soc. P. 8: 200, 1932.

Thyrsopsocus bellulus, pretiosus

inBanks, Psyche 37: 185, 1930.

Thysanocnemis bischoffi

Knull, Ent. News 43: 65, 1932.

Thysanococcus, T. spp.

nStickney, USDA TB 404: 116-143, '34.

Thysanoptera

Essig, Hist. of Ent.: 98-101, 1931.

inFaure, Bklyn. Ent. Soc. B. 28: 1-17, 55-75, 1933.

biHood, Bklyn. Ent. Soc. B. 26: 151-168, 1931; B. 27: 1-6, 1932.

Hood, Pan-Pac. Ent. 7: 170-172, 1931.

nHood, J. N.Y. Ent. Soc. 41: 407-434, 1933.

nHood, P. Biol. Soc. Wash. 47: 57-82, 1934.

Knowlton & Thomas, Can. Ent. 65: 114-117, 1933.

Moulton, J. Ec. Ent. 24: 1031-1036, '31.

Moulton, Hawaiian Ent. Soc. P. 8: 499-503, 1934.

iMoulton & Steinweden, Bernice P. Bishop Mus. B. 98: 165-168, 1932.

bSakimura & Carter, Ann. Ent. Soc. Amer. 27: 341-342, 1934.

Watson, Fla. Ent. 15: 51-54, 1931.

iWatson, Univ. Okla. Biol. Surv. Pub. 3: 339-345, 1931.

Watson, Fla. Ent. 16: 61-62, 1933.

Watts, J. Ec. Ent. 27: 1158-1159, 1934.

Whitney, Hawaii Bd. Com. Agr. & For.

Bien. R. f. 1930: 91-92, 1931.

Thysanura

bSweetman, Bklyn. Ent. Soc. B. 29: 158-161, 1934.

Thysanus spp.

nDozier, P. Ent. Soc. Wash. 35: 98-100, 1933.

Jaynes, USDA TB 363: 6, 1933.

Swezey, Hawaiian Ent. Soc. P. 7: 343, 1931.

Tibicen apache, see Diceroprocta apache**Tibicen chisonensis**

inDavis, J. N.Y. Ent. Soc. 42: 37-39, '34.

Tibicen cinctifera, see Diceroprocta cinctifera**Tibicen cultriformis**

Davis, J. N.Y. Ent. Soc. 40: 242-244, 1932.

Tibicen davisii

Hyslop, J. Ec. Ent. 27: 564, 1934.

Wilson, Fla. Ent. 14: 61-65, 1930.

bWymore, J. Ec. Ent. 27: 885, 1934.

Tibicen duryi

Beamer, J. N.Y. Ent. Soc. 38: 295-296, 1930.

Tibicen fusca

inDavis, J. N.Y. Ent. Soc. 42: 43-44, '34.

Tibicen inauditus

Davis, J. N.Y. Ent. Soc. 38: 59-60, '30.

Davis, J. N.Y. Ent. Soc. 40: 244, 1932.

Tibicen linnei

iWeed, Insect Ways: 206-210, 1930.

Tibicen minor, paralleloides

inDavis, J. N.Y. Ent. Soc. 42: 39-43, '34.

Tibicen pruinosa

Beamer, J. Kans. Ent. Soc. 4: 51-52, 1931.

Tibicen resh

Davis, J. N.Y. Ent. Soc. 38: 58-59, '30.

Tibicina septendecim, see Magicicada septendecim**Tick eradication**

Allen, USDA Off. Rec. 9(49): 1, 1930.

Bux, Farm & Ranch 51(2): 23, 1932.

Ellenberger & Chapin, USDA FB 1057 rev.: 1930, 27p.

Cary, Ala. St. Vet. R. f. 1934: 3-4.

iGroves, Tex. Live Stock San. Com. R. f. 1933: 36-39, 1934.

- MacKellar, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash. D.C. Doc. Material 2: 145-148, 1930.
- Mohler, USDA BAI R. f. 1931: 59-60; R. f. 1932: 45-46; R. f. 1933: 36-37; R. f. 1934: 39-40.
- Cornell Vet. 21: 120-121, 1931.
- Fla. Grow. 40(11): 14, 1932.
- Fla. Rev. 4(17): 13, 1930.
- iRev. de Agr. Cuba 11(10): 37-47, 1930.
- USDA Off. Rec. 10: 162, 1931.
- Tick eradication—Films**
- Warburton, USDA Off. Rec. 9(11): 1, 3, 1930.
- Tick eradication—Florida**
- Moguel, USDA Off. Rec. 11: 181, 1932.
- USDA Off. Rec. 10: 104, 1931.
- Tick eradication—Legislation**
- Farm & Ranch 49(18): 25, 1930.
- Tick paralysis**
- iBishopp, Smithson. R. f. 1933: 397.
- bCooley, Mont. B. 268: 23-24, 1932.
- bMatheson, Med. Ent.: 55-56, 1932.
- biThomas & Cahn, J. Parasit. 18: 219-230, 1932.
- Science n.s. 73(1891 sup.): 14, 1931.
- Ticks**
- Bequaert, Amer. Mus. Nov. 426: 1930, 12p.
- Bequaert, Psyche 40: 137-143, 1930.
- iBishopp, USDA YB f. 1931: 516-519.
- Bruce, Can. Vet. Dir. Gen. R. f. 1931: 73.
- Buckell, B.C. Ent. Soc. P. 31: 10-16, '34.
- Dunn, J. Parasit. 20: 312, 1934.
- biMcIntosh, North Amer. Vet. 12: 6, 37-41, 1931.
- McIntosh, Helminth. Soc. Wash. P. 1: 21-22, 1934.
- biMatheson, Med. Ent.: 30-54, 1932.
- Peter, Amer. Leath. Chem. Assoc. J. 25: 293-294, 1930.
- Robertson, Amer. Leath. Chem. Assoc. J. 32: 554, 1932.
- Sanderson, Ins. Pests Farm ed. 3: 543-547, 1931.
- Schwartz et al, USDA C. 148 rev.: 45-48, 1933.
- Symons, Md. Univ. & St. Bd. Agr. Bien. R. f. 1930/1932: 99, 1933.
- Van Volkenberg, P.R. Mayaguez R. f. 1931: 25, 1932.
- Vigueras, Psyche 41: 13-18, 1934.
- Ticks—Losses caused by**
- Mohler, USDA FB 1625: 16-17, 1930.
- Ticks—Parasites**
- Bequaert, Amer. Mus. Nov. 426: 1-3, 1930.
- Bishopp, P. Ent. Soc. Wash. 36: 87-88, 1934.
- iCooley, Mont. St. Bd. Ent. Bien. R. 8: 16-25, 1930.
- Cooley, Science n.s. 71: 419-420, 1930.
- biCooley, Mont. B. 268: 54-55, 1932.
- iCooley & Kohls, Pac. Sci. Cong. 5, P. 5: 3375-3381, 1934.
- biGahan, P. Ent. Soc. Wash. 36: 89-97, 1934.
- Ticks—Quarantine**
- Fla. Grow. 41(2): 20, 1933.
- Ticks—Tapirs**
- Dunn, J. Parasit. 20: 312, 1934.
- Ticks and Anaplasmosis**
- iBishopp, Smithson. R. f. 1933: 395-396.
- biBoynton, Cornell Vet. 22: 20-28, 1932.
- Hutchison, Cal. R. f. 1932-34: 89.
- Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.
- iRees, North Amer. Vet. 11(9): 17-20, 1930.
- Rees, North Amer. Vet. 12(11): 15, '31.
- biRees, USDA TB 418, 1934, 18p.
- Stiles, USDA C. 154: 8, 1931.
- Ticks and disease**
- bBadger, U.S. Pub. Health R. 47: 2365-2369, 1932.
- biBecker, Col. Med. 27: 36-43, 87-95, 1930.
- iBishopp, Smithson. R. f. 1933: 389-406.
- Dyer, Mil. Surgeon 72: 421-439, 1933.
- Francis, J. Amer. Med. Assoc. 99: 70-71, 1932.
- Glasser, Va. Med. Month. 56: 670-671, 1930.
- bHoffman, Assoc. Med. P.R. B. 24: 655-656, 1932.
- Marlatt, USDA Ent. R. f. 1933: 42-43.
- Rawson, Sci. Month. 39: 506-508, '34.
- Riley & Johannsen, Med. Ent.: 84-96, 1932.
- Sanderson, North Amer. Vet. 12(5): 20-22, 1931.
- biShipley, Johns Hopkins Hosp. B. 50: 83-101, 1932.

Ticks and disease *Cont'd*

Spencer, U.S. Pub. Health R. 46: 2097-2101, 1931.

bToomey, Ann. Internal Med. 5: 585-612, 1931; 5: 1513-1525, 1932.

Cal. St. Dept. Pub. Health Wkly. B. 12: 65-66, 1933.

Ticks and Equine piroplasmosis

Krijgsman, Pac. Sci. Cong. 5, P. 5: 3358, 1934.

Ticks and Paresis

Science n.s. 74(1905 sup.): 12, 1931.

Sci. News Letter 19: 394, 1931.

Ticks and Rocky Mountain spotted fever

Badger, U.S. Pub. Health R. 48: 791-795, 1933.

iBishopp, Smithson. R. f. 1933: 393-395.

bCrutcher, South. Med. J. 26: 415-417, 1933.

Draper, Va. Med. Month. 61: 171-174, 1934.

Faby, U.S. Vet. Adm. Med. B. 7: 33-38, 1931.

bJellison, U.S. Pub. Health R. 49: 363-367, 1934.

biLitterer, South. Med. J. 26: 407-415, '33.

biParker, Philip & Jellison, Amer. J. Trop. Med. 13: 341-379, 1933.

bPhilip, U.S. Pub. Health R. 48: 266-272, 1933.

Russell, Rockefeller Found. R. f. 1933: 76, 79.

Tonkin, Col. Med. 28: 97-100, 1931.

bToomey, Ann. Internal Med. 5: 585-600, 1931; 5: 1296-1307, 1932.

bJ. Amer. Med. Assoc. 101: 607-608, 1933.

U.S. Bur. Labor Stat. Month. Labor Rev. 37: 314-315, 1933.

Science n.s. 76(1965 sup.): 10, 1932.

Sci. News Letter 19: 157, 1931.

U.S. Pub. Health R. 48: 471-473, 1933.

Ticks and Tularaemia

iBishopp, Smithson. R. f. 1933: 396.

biMassee, Med. Assoc. Ga. J. 21: 7-12, 1932.

Mohler, Vet. Med. 25: 138, 1930.

bPhilip, U.S. Pub. Health R. 49: 386-392, 1934.

Weir, Can. Min. Agr. R. f. 1930/1931: 147.

Vet. Med. 28: 317, 1933; 29: 485, 1934.

Ticks and Yellow fever

bDavis, Amer. J. Trop. Med. 13: 547-554, 1933.

Tigava bondari, semota

nDrake, Hawaiian Ent. Soc. P. 7: 405-406, 1931.

Tiger moth, *see* *Utetheisa bella****Tilloclytus* spp.**

nFisher, PUSNM 80(22): 60-64, 1932.

Knoll, Ent. News 45: 210, 1934.

***Timarchia* spp.**

Jardine, Oreg. Bien. R. f. 1928-1930: 89-90.

Timber insects

Spencer, B.C. Ent. Soc. P. 27: 6-10, '30.

Timetes petreus*, *see* *Athena peleus***Timora toralis*—Synonymy**

Benjamin, P. Ent. Soc. Wash. 34: 124-125, 1932.

Timothy* billbug, *see* *Calendra zeae***Timulla* spp.**

nMickel, Ann. Ent. Soc. Amer. 26: 377-415, 1933.

***Tinea*—Key**

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 155-156, 1930.

Tinea granella* L. (European grain moth)

Gray, Ent. Soc. Ont. R. 65: 68, 1934.

Tinea pellionella* L. (Casebearing clothes moth)

iBack, USDA FB 1353 rev.: 2-3, 1931.

iBack & Cotton, USDA FB 1655, 1931, 32p.

iBeard, Amer. Boys' Bk. Bugs: 142-144, 1932.

iFord & Covert, S.Dak. Ext. C. 320: 2-10, 1933.

Headlee, N.J. C. 264, 1933, 4p.; C. 265, 1933, 4p.

iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 30-40, 1934.

iKitchen, Farm J. 54(4): 42-43, 1930.

biMarcovitch, Tenn. B. 147: 3-5, 1933.

iParks & Jones, Ohio Ext. B. 97: 18, 1930; B. 97 rev.: 14, 1933.

iSachs, Better Homes & Gardens 10(8): 46, 62, 1932.

Tracy, J. Mammalogy 12: 321-322, '31.

Watson, Fla. Grow. 42(3): 20, 1934.

***Tinea pellionella*—Parasites**

Swezey, Hawaiian Ent. Soc. P. 8: 234, 1933.

- Tinea pellionella**—Rearing—Fish meal
Griswold, J. Ec. Ent. 27: 862, 1934.
- Tinea spp.**
Milburn, Pictorial Rev. 34(8): 41, 44, 1933.
- Tineidae**—Puerto Rico—Key
Forbes, P.R. Dept. Agr. J. 15: 383-384, 1931.
- Tineola biselliella (Hum.) (Webbing clothes moth)***
Agnew, South. Plant. 92(9): 10, 1931.
iBack, USDA FB 1353 rev.: 3-5, 1931.
iBack & Cotton, USDA FB 1655, 1931, 32p.
[Betten], N.Y. (C.) R. 45: 122, 1932.
Colman, J. Ec. Ent. 25: 1242, 1932.
Fairbrother, Soap 7(9): 97, 99, 101, 103, 111, 1931.
Griswold, Ann. Ent. Soc. Amer. 24: 761-764, 1931.
Headlee, N.J. C. 264: 1-3, 1933.
Herrick & Griswold, N.Y. (C.) R. 44: Pt. 2: 48, 1931; R. 46: 105, 1933.
Herrick & Griswold, J. Ec. Ent. 26: 446-451, 1933.
Herrick & Griswold, Science n.s. 77: 391-392, 1933.
iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 28-30, 32-40, 1934.
iKitchen, Farm J. 54(4): 42-43, 1930.
Mann, N.Y. (C.) R. 43: Pt. 2: 42-43, 1931.
biMarcovitch, Tenn. B. 147: 3-5, 1933.
biMex. Agr. & Fomento. Principales Plagas: 234, 1930.
iParks & Jones, Ohio Ext. B. 97 rev.: 12-13, 1933.
Turner & Townsend, Conn. B. 360: 479-480, 1934.
Twinn, Ent. Soc. Ont. R. 64: 78-79, 1933; R. 65: 128, 1934.
Twinn, Que. Soc. Prot. Pl. R. 25/26: 53-56, 1934.
- Tineola biselliella**—Cage for toxicity tests
Colman, J. Ec. Ent. 25: 1108, 1932.
- Tineola biselliella**—Fish meal
Griswold, J. Ec. Ent. 26: 720-722, 1933; 27: 862, 1934.
- Tineola biselliella**—Hydrogenated naphthalene
Colman, J. Ec. Ent. 27: 860, 1934.
- Tineola biselliella**—Migration, warehouse to dwellings
Herrick, Ent. News 44: 99-101, 1933.
- Tineola biselliella**—Paradichlorobenzene
Herrick & Griswold, J. Ec. Ent. 24: 420-425, 1931.
- Tineola biselliella**—Paradichlorobenzene, Naphthalene, Cedar oil
iBillings, J. Ec. Ent. 27: 401-405, 1934.
- Tineola biselliella**—Propylene dichloride
McDaniel, Mich. Quar. B. 16(1): 13-15, 1933.
- Tineola uterella**
Kea, Fla. Ent. 17: 66, 1933.
- Tingis buddleiae**
nDrake, P. Ent. Soc. Wash. 32: 168, '30.
- Tingitidae**
Drake, Amer. Mus. Nov. 398: 1930, 3p.
Drake, Bklyn. Ent. Soc. B. 25: 25-26, 268-272, 1930.
Drake, P. Ent. Soc. Wash. 32: 165-168, 1930.
Drake, Ann. Ent. Soc. Amer. 24: 510-514, 1931.
Drake, Psyche 39: 100-102, 1932.
Fenton, Can. Ent. 66: 198-199, 1934.
- Tinobregmus, T. invenustus, pallidus elegans**
binLawson, Ann. Ent. Soc. Amer. 25: 359-365, 1932.
- Tiphia popilliavora**
iAllen & Jaynes, PUSNM 76(17): 51-54, 1930.
bBrunson, J. Ec. Ent. 27: 514-518, '34.
biClausen, USDA TB 308: 1932, 27p.
bClausen, Jaynes & Gardner, USDA TB 366: 31-32, 1933.
iHadley & Hawley, USDA C. 332: 18-19, 1934.
iHolloway, J. N.Y. Ent. Soc. 39: 555-563, 1931.
King, J. Ec. Ent. 24: 460-461, 1931.
King & Holloway, J. Ec. Ent. 23: 266-274, 1930.
iKing & Holloway, USDA C. 145, 1930, 12p.
Marlatt, USDA R. f. 1930: 6; R. f. 1931: 24.
iPycke, N.Y. Dept. Agr. & Markets, C. 410: 17-18, 1930.
Watley, Flow. Grow. 17: 559-560, '30.

Tiphia spp.

nAllen, Trans. Amer. Ent. Soc. 60: 297-316, 1934.

iAllen & Burrell, J. Agr. Res. 49: 909-922, 1934.

nAllen & Jaynes, PUSNM 76(17): 37-38, 1930.

biClausen, Jaynes & Gardner, USDA TB 366: 31-47, 1933.

Gardner & Babcock, J. Ec. Ent. 24: 773, 1931.

Pemberton, Hawaiian Sugar Pl. Assoc. P. 52: 22, 1933.

iRex, N.J. Dept. Agr. C. 242: 25-26, '34.

Roberts, Can. Ent. 62: 189-190, 1930.

Roberts, J. Kans. Ent. Soc. 6: 91-96, '33.

iWolcott, Ec. Ent. of West Indies: 112-113, 1933.

U.S. Golf Assoc. Green Sec. B. 11: 186, '31.

Tiphia vernalis

biBalock, J. Ec. Ent. 27: 491-496, 1934.

biClausen, Jaynes & Gardner, USDA TB 366: 33-34, 1933.

Gardner, J. Ec. Ent. 27: 497-499, 1934.

iHadley & Hawley, USDA C. 332: 18-19, 1934.

iKing, J. Ec. Ent. 24: 461-462, 1931.

Marlatt, USDA Ent. R. f. 1930: 6.

U.S. Golf Assoc. B. 10: 190, 1930.

Tiphiidae

Allen, Trans. Amer. Ent. Soc. 60: 295-316, 1934.

Tipula mingwe

iPettit, Mich. Ent. R. f. 1930: 17-18.

iPettit, Mich. St. Bd. Agr. R. 69: 219-220, 1930.

Rogers, Ecol. Monog. 3(1): 35, 1933.

Tipula simplex Doane (Range crane fly)*

Cartwright, Blanchard & Wilson, Cal. Agr. Mo. B. 22: 157, 1933.

Tipula speiseriana

nAlexander, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1004-1005, 1930.

Tipula spp. (Leather jackets)

nAlexander, Bost. Soc. Nat. Hist. Occ. Pap. 5: 276-277, 1930.

nAlexander, Bklyn. Ent. Soc. B. 25: 278-279, 1930.

inAlexander, Amer. Mus. Nov. 491: 3-5, 1931.

nAlexander, Ann. Ent. Soc. Amer. 24: 622-625, 1931.

binAlexander, Milwaukee Pub. Mus. B. 8: 240-242, 1932.

inRogers, Univ. Okla. Biol. Surv. Pub. 3: 335-337, 1931.

Strickland, Alberta Ext. B. 24: 56, '33.

Tipulidae

Alexander, Ann. Ent. Soc. Amer. 23: 721-740, 1930; 24: 622-642, 1931;

27: 55-73, 1934.

Alexander, Bost. Soc. Nat. Hist. Occ. Pap. 5: 267-278, 1930.

Alexander, Bklyn. Ent. Soc. B. 25: 276-282, 1930; 26: 177-184, 1931.

iAlexander, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1004-1021, 1930.

Alexander, J. N.Y. Ent. Soc. 38: 109-120, 1930; 39: 109-122, 1931; 41: 91-100, 1933.

Alexander, BAMNH 61: 113-115, '31.
Alexander, Amer. Mus. Nov. 491, 1931, 16p.

Alexander, Can. Ent. 63: 135-147, '31.

biAlexander, Bernice P. Bishop Mus. B. 98: 87-92, 1932; Occ. Pap. 9(21): 1932, 12p.

iAlexander, P. R. Dept. Agr. J. 16: 347-387, 1932.

Alexander, Can. Ent. 66: 116-118, '34.

biDickinson, Milwaukee Pub. Mus. B. 8: 148-260, 1932.

iRogers, Univ. Okla. Biol. Surv. Pub. 3: 331-345, 1931.

biRogers, Ecol. Monog. 3(1): 1-74, 1933.

iRogers, Mich. Univ. Mus. Zool. Occ. Pap. 215, 1930. 50p.

Tipulidomima, T. tessmanni

nTownsend, J. N.Y. Ent. Soc. 40: 458-459, 1932.

Tirathaba rufivena

Pierce, Ent. News 45: 4, 1934.

Tirys punctulatus

Blatchley, Trans. Amer. Ent. Soc. 60: 14, 1934.

Tischeria—Key

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 149, 1930.

Tischeria malifoliella Clem. (Apple leaf trumpet miner)*

Quaintance & Siegler, USDA FB 1270 rev.: 60-61, 1931.

iSanderson, Ins. Pests Farm, ed. 3: 362-364, 1931.

Titanio dapalis

- iComstock & Dammers, So. Cal. Acad. Sci. B. 33: 150-151, 1934.

Tmetocera ocellana, *see* **Spilonota ocellana****Tmolus echion**

- iJohnson, Rev. Agr. P.R. 26: 10, 1931.

Toad—Insect food

- Colon, P.R. Dept. Agr. & Comm. Inf. Ann. Span. ed. f. 1931/1932: 89-90.
Leonard, J. Ec. Ent. 26: 67-72, 1933.
Pemberton, Hawaiian Sugar Pl. Assoc. P. 53: 16, 1934.

- iPemberton, Hawaiian Pl. Rec. 38: 189-192, 1934.

Toadbug**, *see* **Gelastocoris oculatus** (F.)Tobacco budworm**, *see* **Heliothis virescens** (F.)***Tobacco flea beetle**, *see* **Epitrix parvula****Tobacco hornworm** *see* **Protoparce sexta****Tobacco insects**

- Agete, Rev. de Agr. Cuba 14(6): 28, 1932.

- Brannon, South Cult. 91(6): 14, 1933.

- Bruner, Rev. de Agr. Cuba, 14(15/16):

- 93-94, 1933; 14(18): 51, 1933.

- Chardon, P.R. Mision Agr. Valle del Cauca: 194-198, 1930.

- iCrumb, La Hacienda, 25: 500-501, '30.

- bCrumb & Chamberlin, Fla. Ent. 18:

- 11-14, 1934.

- Fulton, J. Ec. Ent. 26: 512-513, 1933.

- Fulton, South. Cult. 9(4): 11, 1933.

- Garner, USDA FB 571, rev.: 22, 1930.

- Gilmore & Milam, J. Ec. Ent. 27: 290-291, 1934.

- Lacroix, Conn. B. 326: 419-431, 1931;

- B. 335: 261-266, 1932; B. 350: 488-

- 498, 1932; B. 359: 377-382, 1933; B.

- 367: 135-143, 1934.

- Leonard, P.R. Ins. R. f. 1929/1930: 116, 1931.

- Marlatt, USDA Ent. R. f. 1930: 29-

- 30; R. f. 1931: 41-42; R. f. 1932: 16;

- R. f. 1933; 20, 35-36.

- biMex. Agr. & Fomento. Principales Plagas: 152-153, 1930. ¶

- Morgan, Rev. de Agr. Cuba 11(8): 41-45, 1930. ¶

- Nelson, Can. Exp. Farms. Tobacco Div. R. f. 1930: 21-22.

- iNolla, Rev. Agr. P.R. 24: 93, 1930.

- Purdum, Western Tobacco J. 59: 4, '32.

- Reed, P. Ent. Soc. Wash. 36: 124-125, 1934.

- iSanderson, Ins. Pests Farm, ed. 3: 281-288, 1931.

- Stoutamire, Fla. Dept. Agr. B. 40, n.s. 39-40, 1930.

- Strong, USDA Ent. R. f. 1934: 19-20.

- iTurcot, Que. Min. de l'Agr. B. 122: 46-49, 57-59, 1933.

- biWolcott, Ec. Ent. of West Indies: 525-578, 1933.

Tobacco moth**, *see* **Ephestia elutella**Tobacco thrips**, *see* **Frankliniella fusca*****Tobacco worm**, *see* **Protoparce quinque-maculata** (Haw.)**Tolania walkeri**

- Goding, Ann. Ent. Soc. Amer. 24: 935, 1931.

Tolyte brevicrista

- Benjamin, P. Ent. Soc. Wash. 34: 126-127, 1932.

Tomarus maimon

- Holloway, Facts about Sugar 27: 355, 1932.

Tomaspsis bicincta

- bDoering, J. Kans. Ent. Soc. 3: 55-56, 1930.

Tomaspsis posticus

- biMex. Agr. & Fomento. Principales Plagas: 210, 1930.

Tomaspsis (Monecphora) saccharina

- bWolcott, Ec. Ent. of West Indies: 147-154, 1933.

Tomaspsis varia

- bLeonard, Rev. Agr. P.R. 25: 62, 1930.

Tomato aphid, *see* **Macrosiphum (Illinoia) solanifolii****Tomato fruit worm**, *see* **Heliothis obsoleta****Tomato hornworm**, *see* **Protoparce celius****Tomato insects**

- iAmos, Purdue Agr. 26: 142, 1932.

- Beattie, USDA FB 1431, rev.: 19-21, 1930: FB 1338 rev.: 22-27, 1931.

- Caffrey, Md. Agr. Soc. R. 19: 278, '34.

- Campbell & Ernst, Pac. Rur. Press 124: 91, 1932. ¶

- Dietz, Ohio Veg. Grow. Assoc. P. 15: 170-176, 1930. ¶

- iEssig & Hoskins, Cal. Ext. C. 87: 84-85, 1934.

- iGilbert & Popenoe, USDA FB 1371 rev.: 37-39, 1934.

Tomato insects *Cont'd*

- Jones, J. Ec. Ent. 24: 327-328, 1931.
 Jones & Clark, Tex. R. 47: 53, 1934.
 Lutken, S.C. Wkly. News Notes 19: 51, 1931.
 Marcovitch, Tenn. R. 43: 37, 1930.
 Morales, Cuba Agr. 1(6): 42, 1934.
 Moser, Tenn. St. Hort. Soc. P. 25: 87-89, 1930.
 Walden, Conn. B. 360: 477-478, 1934.
 Wolcott, La Hacienda 26: 236, 1931.
 *Tomato pinworm, *see* *Gnorimoschema lycopersicella* (Busck)
 *Tomato worm, *see* *Protoparce sexta*
Tomicus materiarius
 bnSchedl, Smithson. Misc. Coll. 82(10): 6-7, 1931.
Tomocera californica
 iEssig, Hist., of Ent.: 139-143, 334-335, 1931.
 bSmith, Ann. Ent. Soc. Amer. 26: 524-525, 1933.
Tomocerus pallidus
 Giovannoli, Bailey, Cave Life of Ky.: 233, 1933.
Tomocerus lamelliferus
 Mills, Collembola of Iowa: 84, 1934.
Tomoplagia
 biBenjamin, USDA TB 401: 32-34, 1934.
Tomoplagina maculata
 nCurran, Amer. Mus. Nov. 556: 14-15, 1932.
Tomopterus similis, vittipennis
 nFisher, PUSNM 77(19): 17-20, 1931.
Tomostethus ephippium, luteiventris
 Ross, Can. Ent. 64: 248-249, 1932.
Tomostethus multicinctus
 McConnell, P. Ent. Soc. Wash. 36: 261-262, 1934.
Tomoxia spp.
 nRay, Coleop. Contrib. 1: 147-149, '30.
Tortulia viatrix
 inBusck, P. Ent. Soc. Wash. 36: 68-71, 1934.
 Weiss & Rex, J. Ec. Ent. 27: 557-558, 1934.
 Tortoise shell butterfly, *see* *Aglais californica*
Tortrix citrana, see *Argyrotaenia citrana*
Tortrix conflictana (Poplar leaf roller)
 Violette, Maine For. Com. R. 19: 68, 1932.

Tortrix franciscana (Apple skin worm)

- iEssig & Hoskins, Cal. Ext. C. 87: 8-9, 1934.
 biLockwood, Cal. Agr. Mo. B. 22: 331-333, 1933.
Tortrix ivana
 Bare, J. Ec. Ent. 27: 720-721, 1934.
 Hyslop, J. Ec. Ent. 27: 560, 1934.
Tortrix sp.
 Britton, Conn. B. 349: 447, 1933.
Tortyra vividis
 nBusck, Ent. Amer. n.s. 13: 185, 1933.
Toumeyella liriodendri (Gmel.) (Tuliptree scale)*
 iDavis, Ind. Acad. Sci. P. 39: 300, 1930.
 Felt, J. Ec. Ent. 26: 50, 1933.
 McDaniel, Mich. C.B. 133: 9, 1930.
 biSoraci, N.J. Dept. Agr. C. 243: 22-23, 1934.
 Wallace et al, Ind. Dept. Conserv. R. 14: 53, 1932.
Toumeyella numismaticum (Pine tortoise scale, Scotch pine scale)
 Chambers, Wis. Dept. Agr. B. 115: 53, 1931.
 iChambers & Thomson, Wis. Dept. Agr. B. 145: 61, 1933.
 iDrake & Guthrie, Iowa Dept. Agr. YB 31: 27, 1931.
 bGates, J. Ec. Ent. 23: 544-547, 1930.
 iOrr, Minn. TB. 79: 1931, 199.
 Orr & Hall, J. Ec. Ent. 24: 1087-1089, 1931.
 Pettit, Mich. R. 44: 272-273, 1931.
Toumeyella pinicola (Irregular pine scale)
 iBurke, Cal. Agr. Mo. B. 21: 364, 1932.
 Burke, Nat. Shade Tree Conf. P. 9: 58, 1933.
Tow bug, see *Lasioderma serricorne*
Townsendina
 nCurran, Fam. & Genera of North Amer. Diptera: 464, 1934.
Toxomerus marginatus
 Swezey, Hawaiian Ent. Soc. P. 8: 370, 1934.
Toxoptera—Key
 Gillette & Palmer, Ann. Ent. Soc. Amer. 25: 494, 1932.
Toxoptera aurantiae (Black citrus aphid)*
 Bates, Fla. Ent. 17: 31, 1933.

- Toxoptera graminum Rond. (Green Bug)***
 Grimes, Kans. Bien. R. f. 1932/1934: 102-103.
 biMex. Agr. & Fomento. Principales Plagas: 70-71, 1930.
 iPainter & Parker, Northw. Miller 178: 301, 1934.
 iSanderson, Ins. Pests Farm, ed. 3: 158-161, 1931.
 Smith, J. Kans. Ent. Soc. 5: 83, 1932.
 bWadley, Ann. Ent. Soc. Amer. 24: 325-395, 1931.
- Toxoptera viridi-rubra**
 inGillette & Palmer, Ann. Ent. Soc. Amer. 25: 136-137, 1932.
- Toxorhina (Toxorhina) fragilis**
 iAlexander, P.R. Dept. Agr. J. 16: 378, 1932.
- Toxotropis spp.**
 nPierce, PUSNM 77(17): 8-11, 1930.
- Toxotrypana**
 biBenjamin, USDA TB 401: 10-12, 1934.
- Toxotrypana curvicauda Gerst. (Papaya fruitfly)***
 iBruner, Cuba Santiago de las Vegas C. 75: 9-10, 1931.
 Leonard, P.R. Dept. Agr. J. 16: 134-135, 1932.
 Leonard & Sein, J. Ec. Ent. 24: 331-332, 1931.
 Strong, USDA BPQ R. f. 1933: 24.
 Cal. Agr. Mo. B. 21: 237, 1932.
- Toy beetle, see Leucopholis irrorata**
- Trachelas laticeps**
 inBryant, B. Mus. Comp. Zool. 74: 191-192, 1933.
- Trachelus tabidus (F.) (Black grain stem sawfly)***
 Houser, Ohio Bi-Mo. B. 19(170): 169-171, 1934.
- Trachykele blondeli Marseul (Western cedar borer)***
 Hopping, Can. Ent. 64: 189-190, 1932.
- Trachyrhachis mexicana**
 Hebard, Trans. Amer. Ent. Soc. 58: 258, 1932.
- Trachysomus thomsoni**
 Wheeler & Darlington, Psyche 37: 110, 1930.
- Trachythrips albipes, deleoni, frontalis**
 nHood, P. Biol. Soc. Wash. 46: 213-215, 1933.
- Tragidion**
 biPark, Ent. News 43: 18-19, 1932.
- Tragidion texanum**
 nSchaeffer, Bklyn. Ent. Soc. B. 27: 152, 1932.
- Tragopa bitriangulata**
 inFunkhouser, J. N.Y. Ent. Soc. 38: 414-415, 1930.
- Trama oculata, troglodytes**
 inGillette & Palmer, Ann. Ent. Soc. Amer. 23: 547-548, 1930; 24: 880-881, 1931.
- Tramea**
 iAaron, Nature Mag. 22(3): 110-111, 1933.
 Klots, N.Y. Acad. Sci. Sci. Surv. P.R. 14: 67-78, 1932.
- Tramea carolina**
 bByers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 264, 1930.
- Tramea lacerata, onusta**
 iBird, Sci. Month. 36: 371-372, 1933.
- Tramina**
 Gillette & Palmer, Ann. Ent. Soc. Amer. 24: 880, 1931.
- Tranosema pedella**
 Cushman, PUSNM 82(14): 16, 1933.
- Trap door spider**
 iWoodward, Travel 62(2): 36-37, 1933.
- †Traps for insects, see also under name of major pests, Traps, e.g. Carpocapsa pomonella—Traps**
 Baldwin, N.Y. Dept. Agr. & Markets, C. 450: 7-10, 1932.
 Bishopp, USDA FB 734 rev. 1930, 14p.
 iBishopp, USDA YB f. 1934: 220-222.
 DeCoursey, J. Ec. Ent. 24: 1079-1081, 1931.
 Durston, Pop. Mech. 55: 1040, 1931.
 iGaines, Bklyn. Ent. Soc. B. 28: 47-53, 1933.
 iGaines, J. Ec. Ent. 26: 964-971, 1933.
 iHeadlee, N.J. Mos. Exterm. Assoc. P. 19: 106-128, 1932.
 iHingston, Nat. Geog. Mag. 62: 639, '32.
 iHodgkiss & Smith, Penn. Ext. C. 140: 7-8, 1931.
 Hull, Assoc. South. Agr. Work. P. 31: 423, 1930.
 iHull, J. Ec. Ent. 23: 715-717, 1930.
 Jardine, Pop. Sci. Month. 121(1): 108, 1932.

†Traps for insects *Cont'd*

Laake & Cushing, J. Ec. Ent. 23: 967-972, 1930.

iMartin, Pop. Sci. Month. 133(3): 40-41, 1933.

iMetzger, J. Agr. Res. 40: 659-671, '30.
Moennich, Bklyn. Ent. Soc. B. 29: 97-98, 1934.

Newcomer, USDA C. 270: 72-74, 1933.
Newell, Fla. St. Pl. Bd. Bien. R. 10: 25, 1934.

Patton, Kans. St. Hort. Soc. Bien. R. 42: 77-81, 1934.

Petch, Que. Pom. & Fr. Grow. Soc. R. 37: 48-50, 1930.

bPhillips, Ecology 12: 637-645, 1931.

iRex, N.J. Dept. Agr. C. 222, 1932, 15p.; C. 235, 1933, 17p.; C. 242: 27-30, 1934.

iSimmons, Reed & McGregor, USDA C. 157: 21-25, 1931.

Weiss, N.J. St. Dept. Agr. R. 17: 123-128, 1932; R. 18: 114-121, 1933.

Worthley, Amer. Nurserym. 59(1): 11, 1934.

Traps for insects—Airplane

biCollins & Baker, J. Ec. Ent. 27: 320-327, 1934.

Glick, P. Ent. Soc. Wash. 35: 114-115, 1933.

†Traps for insects—Bait

Borden, Cal. Ext. C. 63: 1-13, 1932.

biBoyd, Introd. to Malariology: 367-368, 1930.

Brower, Ent. News 45: 157-158, 1934.

Burdette, J. Ec. Ent. 25: 343-346, '32.

Champlain & Knull, Ent. News 43: 253-257, 1932.

biDitman & Cory, Md. B. 348: 539-542, 1933.

Donohoe & Barnes, J. Ec. Ent. 27: 1067-1072, 1934.

iEssig & Hoskins, Cal. Ext. C. 87: 13-15, 1934.

Eyer, J. Ec. Ent. 27: 722-723, 1934.

Farnsworth, Ohio St. Hort. Soc. P. 66: 45, 1933.

Fillinger, Kans. Agr. Student 12: 86-87, 1933.

biFrost, Penn. B. 301, 1933, 35p.
iGollehon, Neb. St. Bd. Agr. R. f. 1933: 594-599.

Hansberry & Richardson, Iowa St. Hort. Soc. Trans. 69: 83-89, 1934.

iLehman, J. Ec. Ent. 25: 949-958, 1932.
Marlatt, USDA Ent. R. f. 1932: 16; R. f. 1933: 6.

iMartin, Pop. Sci. Month. 123(3): 94, 1933.

biMetzger, J. Ec. Ent. 27: 473-476, 1934.

iMetzger, USDA Misc. Pub. 201, 1934, 11p.

iMetzger et al, J. Agr. Res. 49: 1001-1008, 1934.

iMoore, Pop. Sci. Month. 117(4): 119, 1930.

iMougeot, Que. Dept. Agr. R. f. 1932/1933: 114-115.

iNewcomer, USDA C. 270: 72-74, 1933.

iParrott & Collins, J. Ec. Ent. 27: 370-379, 1934.

iRicks & Toenjes, Mich. Sp. B. 230: 16-18, 1933.

Rouaix, Rev. Unidas 47(8): 44, 1931.

Wakeland & Haegele, Ida. St. Hort. Assoc. P. 36: 75-77, 1931.

Weir, Can. Min. Agr. R. f. 1932: 192.

Wolters, Hawaiian, Pl. Rec. 38: 270, 1934.

Wood, Can. Ent. 63: 149-150, 1931.

Yetter, Ind. Hort. Soc. Trans. 69: 105-110, 1930.

Yetter, Ida. St. Hort. Assoc. P. 36: 89-90, 1931.

Yetter, Mo. St. Hort. Soc. P. f. 1930/1932: 94-95.

Traps for insects—Bait—Aromatic

iLehman, J. Ec. Ent. 25: 956-958, 1932.

Traps for insects—Bait—Fermenting

Champlain & Knull, Ent. News 43: 253-257, 1932.

Traps for insects—Bait—Geraniol

Hallock, J. Ec. Ent. 25: 407-411, 1932.

Traps for insects—Bait—Geraniol & eugenol

iFleming, Metzger & Osburn, USDA C. 326: 6-9, 1934.

Traps for insects—Bait holder

biHitchens, Mil. Surgeon, 72: 384-387, 1933.

Traps for insects—Balloon type, flame throwers

Ross, Ariz. Ext. Proj. C. 14: 13, 1933.

- Traps for insects—Banding, *see* Tree banding
- Traps for insects—Barriers, *see* Barriers for insects
- Traps for insects—"Berlese funnel"
iJacot, *Science* n.s. 76: 299-300, 1932.
- Traps for insects—Bourgault's, horse-flies
Segal, *J. Ec. Ent.* 26: 301-302, 1933.
- Traps for insects—Box-type trap
iParman, *USDA C.* 247, 1932, 4p.
- Traps for insects—Cave insects
iBarber, *Elisha Mitchell Sci. Soc. J.* 46: 259-266, 1931.
- Traps for insects—Coleoptera in Japanese beetle traps
Sheppard, *Ent. Soc. Ont. R.* 65: 93-97, 1934.
- Traps for insects—Collecting gun
iGunder, *Bklyn. Ent. Soc. B.* 25: 208, 1930.
- Traps for insects—Earth-lined
iRussell & Santiago, *P. Ent. Soc. Wash.* 36: 1-21, 1934.
- †Traps for insects—Electric
iCable, *Elec. World* 103: 799-802, 1934.
Garman, *Conn. B.* 327: 546-547, 1931.
biHeadlee, *J. Ec. Ent.* 25: 276-288, 1932.
Holloway, *Facts about Sugar*, 27: 540, 1932.
Holloway, *Sugar B.* 11(3): 5-6, 1932.
Lipman, *N.J. R.* 55: 40-41, 1934.
iMartin, *Pop. Sci. Month.* 123(3): 40-41, 94, 1933.
Thomson, *Lit. Dig.* 112: 34, Mar. 26, 1932.
Wells, *J. Ec. Ent.* 24: 1242-1247, 1931.
Whitney, *Hawaiian Ent. Soc. P.* 7: 379, 1931.
- Traps for insects—Flies
iBishopp, *USDA FB* 734, rev. 1930, 14p.
iBishopp, *USDA YB f.* 1934: 220-222.
iGray, *Kans. Live Stock San. Comm. Bien. R.* 14: 141-150, 1933.
Kidder, *Fla. R. f.* 1934: 111.
Laake & Cushing, *J. Ec. Ent.* 23: 966-972, 1930.
Roark, *Amer. Soc. Testing Materials P.* 30: Pt. 2, 832-833, 1930.
Roberts, *J. N.Y. Ent. Soc.* 42: 257-261, 1934.
iWoodward, Dawson & Miller, *USDA FB* 1470, rev.: 31-32, 1932.
- Traps for insects—Flight traps
iRice, *J. Ec. Ent.* 26: 1079-1083, 1933.
biWakeland, *J. Ec. Ent.* 27: 534-542, '34.
- Traps for insects—Garbage can fly trap
biHitchens, *Mil. Surgeon*, 72: 381-384, 1933.
- Traps for insects—"Hootch" pot trap
Wicks, *Ida. St. Hort. Assoc. P.* 35: 25-26, 1930.
Wicks, *Ida. Dept. Agr. Bien. R.* 6: 30-31, 1930; *R.* 7: 16, 1932.
- Traps for insects—Hopperdozer
iList, *Col. Ent. C.* 59: 10-11, 1934.
- Traps for insects—Jarring
Quaintance & Siegler, *USDA FB* 1666: 36-37, 1931.
- Traps for insects—Lange insect trap
biCollins & Baker, *J. Ec. Ent.* 27: 325-326, 1934.
- †Traps for insects—Light
biArnott, *Ent. Soc. Ont. R.* 65: 98-101, 1934.
Bartlett, *Lit. Dig.* 115(11): 24, 1933.
Cook, *Can. Ent.* 62: 95-98, 1930.
Davis, *Agr. Engin.* 14: 284, 1933.
i de Gryse, *Ent. Soc. Ont. R.* 64: 55-57, 1933.
Eyer, *J. Ec. Ent.* 27: 722-723, 1934.
Garcia, *N.Mex. R.* 41: 63-64, 1931.
Grimes, *Kans. Bien. R.* 7: 100-101, '34.
Guedet, *Pan-Pac. Ent.* 10: 63, 1934.
iHallock, *J. Ec. Ent.* 25: 407-411, 1932.
iHeadlee, *N.J. Mos. Exterm. Assoc. P.* 19: 106-128, 1932.
Kuwana, *Pac. Sci. Cong.* 4, P. 4: 312-313, 1930.
Lawson, *J. Kans. Ent. Soc.* 3: 35-43, 1930.
Lawson, *J. Kans. Ent. Soc.* 6: 71, 1933.
iLuckiesh, *Elect. World* 101: 718, 1933.
Marcovitch, *Tenn. R.* 47: 25-26, 1934.
iMartin, *Pop. Sci. Month.* 123(3): 40-41, 1933.
Neiswander, *Ohio Wkly. P.B.* 17(40): 1932.
Newcomer, *USDA C.* 270: 72-74, 1933.
iParrott & Collins, *J. Ec. Ent.* 27: 370-379, 1934.
Quaintance & Siegler, *USDA FB* 1666: 38-39, 1931.
Seamans & Gray, *Sci. Agr.* 13: 406, '33.

- †Traps for insects—Light *Cont'd*
 iSeamans & Gray, Que. Soc. Prot. Pl. R. 25/26: 39-46, 1934.
 Simpson, Md. St. Hort. Soc. P. 36: 24-25, 1934.
 Turner, Conn. B. 360: 444-445, 1934.
 iWatson, La Hacienda, 29: 120-121, '34.
- Traps for insects—Light—Colored
 biHermes & Ellsworth, J. Ec. Ent. 27: 1055-1067, 1934.
- Traps for insects—Light—Electric
 Hutchison, Cal. R. f. 1930-1931: 67, '32.
 Lathrop & Dirks, Maine B. 377: 380-381, 1934.
 Swezey, Hawaiian Ent. Soc. P. 7: 421-422, 1931.
- Traps for insects—Light—Suction
 Herms, Agr. Engin. 13: 292, 1932.
 iReed, Morrell & Livingston, J. Ec. Ent. 27: 796-801, 1934.
- Traps for insects—Odor
 iMartin, Pop. Sci. Month. 123(3): 40-41, 94, 1933.
 iPop. Mech. 57: 972, 1932.
- Traps for insects—Paper
 Wolcott, Science n.s. 78(2026 sup.): 9, 1933.
- Traps for insects—Radio waves
 Davis, Lit. Dig. 115(23): 18, 1933.
 iDavis, Sci. Amer. 148: 272-273, 1933.
 iFleur, Pop. Sci. Month. 117(5): 67, '30.
- Traps for insects—Screen
 iGaines, J. Ec. Ent. 26: 964, 1933.
 biHitchens, Mil. Surgeon 73: 20-28, '33.
- Traps for insects—Sound
 LePrince, South. Med. J. 25: 651, 1932.
- Traps for insects—Trap crops
 Brooks & McDowell, Tex. C. 70: 6-7, '34.
 Godfrey & Hagan, Phytopath. 24: 648-658, 1934.
 biGodfrey & Hoshino, Phytopath. 24: 635-647, 1934.
- Traps for insects—Wire basket
 Rex, J. N.Y. Ent. Soc. 39: 593-596, '31.
- Trechinae
 biValentine, Elisha Mitchell Sci. Soc. J. 46: 247-258, 1931.
- Tree banding
 Chandler, Ill. St. Acad. Sci. Trans. 26: 140-141, 1934.
 Cory, Md. St. Hort. Soc. P. 34: 59, '32.
 Cutright, Ohio Hort. Soc. P. 67: 99, '34.
 Davis, Ind. Hort. Soc. Trans. 71: 72-76, 1931.
 Essig & Hoskins, Cal. Ext. C. 87: 12-13, 1934.
 Farnsworth, Ohio St. Hort. Soc. P. 66: 43-45, 1933.
 Flint, Iowa St. Hort. Soc. Trans. 68: 62-64, 1933.
 iHaseman, Mo. B. 334: 13-15, '34.
 Marshall, Ind. C. 180, 1931: 4p.
 iMunro & Riddle, N.Dak. C. 42: rev.: 21, 1933.
 Newcomer, USDA C. 270: 72, 1933.
 Newcomer, Rolfs & Dean, J. Ec. Ent. 26: 1056-1058, 1933.
 Patton, Kans. St. Hort. Soc. Bien. R. 42: 77-81, 1934.
 Prather, Tenn. St. Hort. Soc. P. 28: 40-41, 1932.
 Quaintance & Siegler, USDA FB 1270 rev.: 94-95, 1931; FB 1666: 39-41, 1931.
 iRuggles, Minn. Hort. 62: 53, 73, 77, 172, 1934.
 iSiegler & Munger, USDA YB f. 1934: 160-161.
 Simpson, Md. St. Hort. Soc. P. 36: 22, 1934.
 Wicks, Ida. St. Hort. Assoc. P. 35: 26-27, 1930; P. 36: 86-87, 1931.
 Woodbury, Kans. St. Hort. Soc. Bien. R. 42: 82-84, 1934.
 Yocum, Neb. St. Hort. Soc. P. 61: 48-49, 1930.
- Tree banding—Chemically treated bands
 Fromme, W.Va. B. 263: 21, 1934.
 Gilmer, Kans. St. Hort. Soc. Bien. R. 40: 36-37, 1930.
 Gollehon, Neb. St. Bd. Agr. R. f. 1933: 597-598.
 iMunger, Jones & Seigler, J. Ec. Ent. 27: 817-820, 1934.
 Newcomer, Rolfs & Dean, J. Ec. Ent. 26: 1056-1058, 1933.
 Parks, Ohio St. Hort. Soc. P. 66: 53-54, 1933.
 Porter, Amer. Pom. Soc. P. 49: 36, '33.
 Wicks, Ida. Dept. Agr. Bien. R. 6: 34-37, 1930.
 iWorthley, Penn. B. 293: 22-23, 1933.
 bWorthley, J. Ec. Ent. 27: 346-352, '34.
 Yothers, J. Ec. Ent. 25: 135, 1932.

- Tree banding—Corrugated strawboard vs burlap bands**
 bWorthley, J. Ec. Ent. 27: 346-352, '34.
- Tree banding—Cotton bands**
 McDaniel, Mich. Sp. B. 243: 4, 1933.
- Tree banding—"Tanglefoot"**
 McDaniel, Mich. Sp. B. 243: 4-5, 1933.
- Tree banding—Terpineol**
 Campbell, J. Ec. Ent. 23: 641, 1930.
- Tree borers**
 Elliott, Gard. Club Amer. B. Ser. 4, 12: 95-97, 1930.
 Hamilton, N.J. R. 52: 251, 1931.
 Hamilton, Nat. Shade Tree Conf. P. 10: 31-36, 1934.
 Munro & Fox, N. & S.Dak. Hort. 5: 91-93, 1933.
 iMusgrave, Purdue Agr. 27: 78, 1933.
- Tree hoppers, see Membracidae**
- Tree inoculation against bark beetles**
 bCraighead & St. George, Science n.s. 72: 433-435, 1930.
- Tree wasp, see Vespa sylvestris**
- Tremex columba (Pigeon tremex)***
 Laurent, Ent. News 42: 67, 1931.
 Woodbury, Ecol. Mon. 3: 191, 1933.
- Tremex columba—Parasites**
 iMcDaniel, Mich. Sp. B. 238: 36-37, '33.
 iOutdoor Ind. 1(6): 15, 1934.
- Trentepohlia spp.**
 Alexander, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 1016, 1930.
 nAlexander, J. N.Y. Ent. Soc. 39: 116-117, 1931.
 iAlexander, P.R. Dept. Agr. J. 16: 375-376, 1932.
 nAlexander, Ann. Ent. Soc. Amer. 27: 68-69, 1934.
- Trepobates, T. becki**
 nDrake & Harris, Bklyn. Ent. Soc. B. 27: 113-122, 1932.
- Trepobatopsis, see Metrobates**
- Triacanthagyna trifida**
 Byers, Univ. Fla. Pub. Biol. Sci. Ser. 1(1): 255, 1930.
- Trialeurodes floridensis (Avocado white-fly)***
 Dampf, Tex. Cit. 10(9): 14-15, 1934.
- Trialeurodes packardii (Strawberry white-fly)***
 Britton, Conn. B. 315: 614, 1930.
 Britton, Conn. B. 344: 166, 1933.
- †Trialeurodes vaporariorum (Greenhouse whitefly)***
 Baird, Ent. Soc. Ont. R. 65: 72-73, '34.
 Beattie, USDA FB 1431 rev.: 19-20, 1930.
- biBentley & Bartlett, Tenn. Pl. Dis. Control B. 57: 30-31, 1931.**
 Binkley, Market Grow. J. 48: 121, '31.
 Britton, Conn. B. 344: 171, 1933.
- iCompton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 16-19, 1930.**
- iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 42, 1934.**
- iHaseman & Jones, Mo. B. 342: 18-19, 1934.**
- iMcDaniel, Mich. Sp. B. 214: 57, 58, 1931.**
- iMunro & Riddle, N.Dak. C. 42 rev.: 40-41, 1933.**
 Werts, Flow. Grow. 20: 129, 1933.
- Triangular flea-beetle, see Disonycha triangularis**
- Triaspis curculionis**
 Dozier et al, Del. B. 162: 34, 1929; B. 175: 39, 1932.
- Triatoma megista**
 Davis & Shannon, Amer. J. Trop. Med. 11: 27, 1931.
 biMatheson, Med. Ent.: 139-141, 1932.
 Riley & Johannsen, Med. Ent.: 161, 1932.
- Triatoma megista and Trypanosomiasis**
 Cecil, Text-book of Med. ed. 3: 511, 1934.
- Triatoma megista and Yellow fever**
 biDavis, J. Parasit. 19: 209-214, 1933.
- Triatoma protracta and disease**
 Wood, Amer. J. Trop. Med. 14: 497-516, 1934.
- Triatoma rubrofasciata**
 Fullaway, Hawaiian Ent. Soc. P. 8: 373, 1934.
- Triatoma sanguisuga (Bloodsucking cone-nose)***
 iHerrick, Rur. N.Y. 92: 419, 1933.
 Riley & Johannsen, Med. Ent.: 161, 1932.
- Tribolium confusum (Confused flour beetle)***
 biChapman & Baird, J. Exp. Zool. 68: 293-304, 1934.
 De Ong, J. Ec. Ent. 27: 1131-1132, '34

***Tribolium confusum* Cont'd**

- Good, J. Agr. Res. 46: 327-334, 1933.
 Gray, Ent. Soc. Ont. R. 65: 67, 1934.
 Gray, Que. Soc. Prot. Pl. R. 25/26: 48, 1934.
 Hodges, Nat. & Amer. Miller, 62(3): 46, 51, 1934.
 iMcDaniel, Mich. Quar. B. 16: 167-168, 1934.
 Marlatt, USDA Ent. R. f. 1932: 27.
 biNagel & Shepard, J. Agr. Res. 48: 1009-1016, 1934.
 biPark, Quar. Rev. Biol. 9: 36-54, 1934.
 iParks & Jones, Ohio Ext. B. 97: rev.: 2-3, 1933.
 iRessler, Nat. & Amer. Miller 62(3): 42, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 79, 1933.
 Twinn, Que. Soc. Prot. Pl. R. 25/26: 53-56, 1934.

***Tribolium confusum*—Fumigation**

- Chelonche, Vedalia 2(3): 10, 1933.
 biCotton, J. Ec. Ent. 25: 1090-1103, '32.
 bHorsfall, J. Ec. Ent. 27: 405-409, 1934.
 biLehman, J. Ec. Ent. 23: 958-972, 1930.
 bLindgren & Shepard, J. Ec. Ent. 25: 248-253, 1932.
 Marlatt, USDA Ent. R. f. 1930: 59-60.
 bRichardson & Haas, Iowa St. Col. J. Sci. 6: 287-298, 1932.
 biShepard & Lindgram, J. Ec. Ent. 27: 842-845, 1934.

***Tribolium confusum*—Growth**

- bBrindley, Ann. Ent. Soc. Amer. 23: 750-757, 1930.

***Tribolium confusum*—Metathetely**

- biNagel, Ann. Ent. Soc. Amer. 27: 425-428, 1934.

***Tribolium confusum*—Parasites**

- Chapman, Ecolog. Soc. B. 12(2): [2-3], 1931.

***Tribolium confusum*—Population—Increase**

- iGause, Amer. Nat. 65: 71-72, 1931.
 biHoldaway, Ecol. Monog. 2: 263-304, '32.
 biPark, Ecology 13: 172-181, 1932.
 Stanley, Ecolog. Soc. Amer. B. 12(2): [2], 1931.
 bStanley, Can. J. Res. 7: 426-433, 1932.
***Tribolium confusum*—Reproduction**
 Allee, Ecolog. Soc. Amer. B. 12(4): [9-10], 1932.

***Tribolium confusum*—Sex organs**

- biHodson, Ann. Ent. Soc. Amer. 27: 278-291, 1934.

***Tribolium confusum*—Traps**

- DeCoursey, J. Ec. Ent. 24: 1079-1081, 1931.

Tribolium ferrugineum

- Back & Cotton, USDA FB 1260 rev.: 33-34, 1930.
 Cartwright, S.C. B. 266: 11, 1930.
 Good, J. Agr. Res. 46: 327-334, 1933.
 iMcDaniel, Mich. Quar. B. 16: 168, '34.
 Marlatt, USDA Ent. R. f. 1932: 27.
 bStirrett & Arnott, Ent. Soc. Ont. R. 63: 51-54, 1932.

Tribonium colombicum

- inHebard, Trans. Amer. Ent. Soc. 59: 22-23, 1933.

Trichacis remulus

- biGahan, USDA Misc. Pub. 174: 22-25, 1933.

Trichalophus didymus

- Hyslop, J. Ec. Ent. 27: 563, 1934.

Trichaporus*, *T. catherineae

- nDozier, P. Ent. Soc. Wash. 35: 91-93, 1933.

Trichaporus cubensis, variegata

- Dozier, P. Ent. Soc. Wash. 35: 92, '33.

Trichobaris mucorea

- Marlatt, USDA Ent. R. f. 1930: 30; R. f. 1931: 41.

Trichobaris trinotata* (Potato stalk borer)

- Britton, Conn. B. 344: 151-152, 1933.
 Compton, Ill. C. 391: 25, 1932.
 bList, Col. B. 385: 55-57, 1932.
 Pettit, Mich. St. Bd. Agr. Ent. R. f. 1929: 17.

- Pieper, Burlison & Flint, Ill. B. 344: 277, 1930.

- Tate, J. Ec. Ent. 26: 1173, 1933.

Trichoberia*, *T. rufopilosa

- nTownsend, J. N.Y. Ent. Soc. 40: 439-440, 1932.

Trichobius hirsutulus

- nBequaert, Carnegie Inst. Wash. Pub. 431: 572-573, 1933.

Trichobius major

- Smith, J. Kans. Ent. Soc. 7: 64, 1934.

Trichobius quadrisetosus

- Smith, J. Kans. Ent. Soc. 7: 62-63, '34.

Trichocellus porsildi

- nBrown, Can. Ent. 64: 3-4, 1932.

- Trichocerapoda, T. comstocki**
 nBenjamin, So. Cal. Acad. Sci. B. 31:
 27-29, 1932.
- Trichochrous blackwelderi**
 bBlaisdell, Trans. Amer. Ent. Soc. 57:
 325-327, 1931.
- Trichochrous calcaratus**
 nFall, Can. Ent. 66: 142-143, 1934.
- Trichochrous quadrinotatus**
 Blaisdell, Pan-Pac. Ent. 7: 17-19, 1930.
- Trichochrous varipes**
 nBlaisdell, Can. Ent. 63: 180-181, 1931.
- Trichoclea mojave**
 nBenjamin, So. Cal. Acad. Sci. B. 31:
 29-30, 1932.
- Trichocorixa fenestrata**
 inWalley, Can. Ent. 62: 81, 1930.
- Trichocryptus atlanticus**
 Cushman, PUSNM 82(14): 6, 1933.
- Trichodectes abnormis**
 nEwing, P. Ent. Soc. Wash. 32: 121, '30.
- Trichodectes baculatus**
 inFerris, Harv. Univ. Inst. Trop. Biol.
 Contrib. 5: 1036-1037, 1930.
- Trichodectes brachycephalus**
 nEwing, P. Ent. Soc. Wash. 32: 120-121,
 1930.
- Trichodectes canis**
 Caler, J. Kans. Ent. Soc. 4: 82, 1931.
- Trichodectes congoensis, dendrohyracis**
 inFerris, Harv. Univ. Inst. Trop. Biol.
 Contrib. 5: 1032, 1034, 1036, 1930.
- Trichodectes equi (Horse biting-louse)***
 Caler, J. Kans. Ent. Soc. 4: 94, 1931.
- Trichodectes granulatus**
 inFerris, Harv. Univ. Inst. Trop. Biol.
 Contrib. 5: 1029, 1930.
- Trichodectes latus**
 iHall, USDA C. 338 rev.: 13-15, 1934.
 Rawson, Sci. Month. 39: 498-499, '34.
 Swezey, Hawaiian Ent. Soc. P. 7: 361-
 362, 1931.
- Trichodectes ovis**
 i[Stevenson], Common Animal Para-
 sites Inj. Sheep in Eastern Canada:
 38-39, 1931.
- Trichodectes parumpilosis**
 iCameron, Can. Dept. Agr. B. 152: 14-
 15, 1931.
- Trichodectes pilosus**
 Caler, J. Kans. Ent. Soc. 4: 94-95, '31.
- Trichodectes retusus—Mink**
 bHansen, Amer. Fur Breeder 5(7): 5, '33.
- Trichodectes scalaris**
 iPettit, Mich. R. 46: 234, 1933.
 Sanderson, Ins. Pests Farm. ed. 3: 505-
 507, 1931.
- Trichodectes spp.**
 Kelser, Vet. Med. 25: 320-321, 1930.
- Trichodectes tibialis**
 Buckell, B.C. Ent. Soc. P. 31: 15, 1934.
- Trichodectidae**
 Gibson, Sci. Agr. 11: 214-216, 1930.
 Sanderson, Ins. Pests Farm. ed. 3: 505-
 507, 1931.
- Trichodes ornatus**
 Essig, J. Ec. Ent. 27: 724, 1934.
- Trichogramma euproctidis**
 Schread, Conn. B. 360: 463-466, 1934.
- Trichogramma japonicum**
 Fullaway, Hawaii Bd. Comm. Agr.
 For. Bien. R. f. 1930: 80, 1931.
 Kuwana, Pac. Sci. Cong. 4, P. 4: 379-
 382, 1930.
- †Trichogramma minutum**
 Alden, Ga. St. Hort. Soc. P. 53: 35-37,
 1929.
- iAlden, Ga. St. Bd. Ent. B. 71: 9-10,**
 1930; B. 75: 18-19, 1931; B. 76: 8,
 10, 19, 1932; B. 77: 17, 23, 24, 1933.
- iAlden & Clarke, Ga. St. Bd. Ent. B. 74:**
 16-18, 1931.
- Allen, Mass. Fr. Grow. Assoc. Inc., R.**
 40: 30-32, 1934.
- iAllen & Warren, J. Ec. Ent. 25: 374-**
 380, 1932.
- Cartwright, S.C. R. 43: 71, 1930.**
Cartwright & Nettles, S.C. R. 44: 71,
 1931.
- Clarke, Ga. St. Ent. B. 77: 30, 36, 1933.**
- iCogswell, Pop. Mech. 55: 399-401,**
 1931.
- Cooper, Ky. R. 45: Pt. 1: 57, 1933.**
Crowley, Wash. B. 260: 68, 1931.
- iDavis et al, USDA TB 388: 44-45, '33.**
De Gravelles, Sugar B. 11(17): 3-4, '33.
biDitman & Cory, Md. B. 328: 472, 1931.

‡*Trichogramma minutum* Cont'd

- Domínguez, P.R. Dept. Agr. & Com.
Inf. Ann. Span. ed. f. 1932/1933:
149-150.
- Dowell, La. R. f. 1931/1933: 10-12.
- Dozier, P. Ent. Soc. Wash. 34: 29, '32.
- Dozier et al, Del. B. 162: 41, 1929.
- iDozier, et al, Del. B. 176: 42, 1932.
- Drinkard, Va. Poly. Inst. R. f. 1927/
1931: 36-37.
- Eddy & Nettles, S.C. B. 278: 18-19,
1931.
- Eddy et al, S.C. C. 38: 20-21, 1930.
- iEssig, Hist. of Ent.: 325-329, 1931.
- Flanders, J. Ec. Ent. 23: 603-606, 1930.
- Flanders, Pan-Pac. Ent. 6: 180-181,
1930; 7: 20-21, 1930.
- Flanders, Science n.s. 73: 458, 1931.
- Fletcher, J. Ec. Ent. 26: 978-982, 1933.
- Flint, Amer. Pom. Soc. P. f. 1929-30:
46-47.
- Flint, Iowa St. Hort. Soc. Trans. 65:
96-97, 1931.
- Flint & Chandler, Ill. St. Hort. Soc.
Trans. 75: 558-559, 1930.
- bFriend, Ent. Soc. Ont. R. 65: 52, 1934.
- Garman, Conn. Pom. Soc. P. 39: 41-43,
1930.
- Garman, Conn. B. 349: 427-429, 1933.
- Gill, Nat. Pecan Grow. Assoc. P. 29:
72-74, 1930.
- Gillette, Col. R. 44: 36, 1931.
- biHaeussler, J. Agr. Res. 41: 365-377,
1930.
- Hedrick, N.Y. (Gen.) R. 49: 68, 1930.
- Hinds, Sugar B. 10(6): 3-4, 1931.
- Hinds, Facts about Sugar 27: 137, '32.
- Hinds, Sugar B. 11(20): 2-3; B. 11 (23):
3; B. 12(7): 3-5, 1933.
- Hinds & Osterberger, Facts about
Sugar 27: 300, 1932.
- bHinds & Osterberger, Internat. Soc.
Sugar Cane Tech. Cong. 4, B. 52
[P. Pt. 2], 1932, 6p.
- Hinds & Osterberger, Sugar B. 10(24):
10, 1932.
- iHinds et al, J. Ec. Ent. 26: 758-767,
1933. •
- biHinds et al, La. B. 235, 1933. 36p.
- Hinds et al, Sugar B. 11(7): 2, 4, 1933.
- Hinds et al, La. B. 248: 1934. 34p.
- iHinds et al, J. Ec. Ent. 23: 121-127,
1930; 25: 57-64, 1932; 26: 758-767,
1933.
- Hinds & Spencer, Sugar B. 8(7): 6, '30.
- Hinds et al, La. R. f. 1929-31: 85.
- Hinds et al, Facts about Sugar 28: 102,
1933.
- Holloway, Facts about Sugar 25: 745,
1930; 26: 70, 1931; 28: 218, 1933.
- bHolloway, J. Ec. Ent. 26: 974-977, '33.
- Holloway, Sugar B. 12(6): 3-4, 1933.
- Howard, Hist. of Appl'd Ent.: 533, '30.
- iHoward, Insect Menace: 243-247, '31.
- Jaynes, USDA TB 363: 21, 1933.
- List, Col. R. 45: 43-44, 1932.
- List, J. Ec. Ent. 26: 376, 1933.
- List & Davis, Col.-Wyo. Acad. Sci. J.
1(4): 61-62, 1932.
- List & Davis, J. Ec. Ent. 25: 981-985,
1932.
- List & Davis, Col.-Wyo. Acad. Sci. J.
1(5): 81-82, 1933.
- Lobdell, Fla. R. 45: 160, 1931.
- Lobdell, Fla. R. f. 1933: 170.
- McConnell, J. Ec. Ent. 25: 369, 1932.
- bMcConnell, Md. B. 364: 439-456, 1934.
- McHatton, Ky. Hort. Soc. Trans. 75:
108, 1930.
- McKenzie, Cal. Avocado Assoc. YB f.
1933: 34.
- Marlatt, USDA Ent. R. f. 1930: 9;
R. f. 1932: 3.
- Morrill, J. Ec. Ent. 24: 452, 1931.
- Mumford, Ill. R. 45: 140-141, 1932.
- Murrell, Tenn. St. Hort. Soc. P. 25:
22-23, 1930.
- Newcomer, USDA C. 270: 65, 1933.
- Nickels & Pinkney, J. Ec. Ent. 23: 287-
288, 1930.
- Nickels, Nat. Pecan Grow. Assoc. P.
30: 58-59, 1931.
- Nickels, Tex. Pecan Grow. Assoc. P.
13: 66-67, 1933.
- Osterberger et al, Sugar B. 10(21): 2-3;
10(23): 5-7, 1932.
- Petch, Que. Pom. & Fr. Grow. Soc. R.
37: 32, 1930.
- Peterson, USDA TB 215: 1930, 22p.
- Phillips & Barber, Va. TB 47: 12, '33.
- Porter, Ohio St. Hort. Soc. P. 65: 118-
119, 1932.
- Sandsten, Col. R. 46: 14-15, 1933.

- Scaramuzza, Rev. de Agr. Cuba 14(4): 59-60, 1932.
- Schread, J. Ec. Ent. 25: 370-374, 1932.
- Slate, Conn. B. 337: 462-463, 1932.
- bSteenburgh, Ent. Soc. Ont. R. 60: 125-129, 1930; R. 61: 57-65, 1931; R. 62: 66, 1932; R. 65: 68-69, 1934.
- bSteenburgh, Can. J. Res. 10: 287-314, 1934.
- Swezey, Hawaiian Ent. Soc. P. 7: 341, 370-371, 1931; 8: 387, 1934.
- Thomas et al, Tex. R. 45: 38, 1932.
- Tucker, Facts about Sugar 26: 86, 1931.
- bTucker, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 102 [P. Pt. 2], 1932, 6p.
- Walker, Fla. R. 45: 74, 1931.
- Winburn & Painter, J. Kans. Ent. Soc. 5: 15-18, 1932.
- bWolcott, Ec. Ent. of West Indies: 174-176, 1933.
- Yetter, Mo. St. Hort. Soc. P. f. 1930-1932: 95.
- Trichogramma minutum—Breeding**
iCoggswell, Pop. Mech. 55: 399-401, 1931.
List, J. Ec. Ent. 23: 342-348, 1930.
- Trichogramma minutum—Colonization**
Hinds, Sugar B. 11(12): 4-5, 1933.
- Trichogramma minutum—Mass production**
biFlanders, Hilgardia 4: 465-501, 1930.
- Trichogramma minutum—Rearing**
iAlden & Farlinger, J. Ec. Ent. 24: 480-483, 1931.
Gill, Ga. St. Bd. Ent. B. 75/76: 24, 30, 1931.
- Trichogramma minutum—Refrigeration**
Garman & Schread, Ann. Ent. Soc. Amer. 24: 425, 1931.
Peterson, J. Ec. Ent. 24: 474, 1071-1074, 1931.
- Trichogramma minutum and pecan insects**
Gill, Ga. St. Ent. B. 77: 39, 44-45, '33.
- Trichogramma minutum and temperature**
biFlanders, Hilgardia 5: 395-406, 1931.
biLund, Ann. Ent. Soc. Amer. 27: 324-340, 1934.
- Trichogramma pretiosa, see Trichogramma minutum**
- †**Trichogramma spp.**
Chambers, Wis. Dept. Agr. B. 141: 108-109, 1933.
- bClark, USDA TB 455: 19, 1934.
- Flanders, J. Ec. Ent. 26: 511, 1933.
- Garman, Conn. Pom. Soc. P. 44: 24-26, 1934.
- Goldsworthy, Wis. Cranb. Grow. Assoc. R. 46: 50, 1933.
- Hinds, Sugar B. 9(16): 6; (17): 1-2, 1931; 10(18): 2-3, 1932; 11(1): 7, '32.
- Hinds et al, Facts about Sugar 28: 102, 1933.
- Hinds et al, J. Ec. Ent. 27: 788-795, 1934.
- Hutchison, Cal. R. f. 1929/1930: 37, 1931.
- biLund, Ann. Ent. Soc. Amer. 27: 324-340, 1934.
- Morrill, J. Ec. Ent. 24: 1264-1273, 1931; 25: 728, 1932.
- biPeterson, J. N.Y. Ent. Soc. 38: 1-7, '30.
- Quaintance et al, J. Ec. Ent. 24: 23, 1931.
- Smith & Flanders, J. Ec. Ent. 24: 666-672, 1931.
- Trichogramma spp—Breeding**
Hinds, Sugar B. 9(15): 3-4, 1931.
Hinds, Sugar B. 10(2): 3-6, 1931.
iSchread, J. Ec. Ent. 26: 402-404, 1933.
- Trichogramma spp.—Colonization**
Hinds, Facts about Sugar 26: 321, 1931.
Hinds, Sugar B. 9(17): 1-2, 1931.
Hinds, Sugar B. 9(18): 1-2, 1931.
Hinds & Osterberger, Facts about Sugar 27: 454, 1932.
- Trichogramma spp.—Marketing**
Pop. Mech. 54: 640, 1930.
- Trichogramma spp.—Mass production**
Hinds, Sugar B. 9(21): 6-8, 1931.
iSmyth, J. Ec. Ent. 26: 768-774, 1933.
- Trichogramma spp.—Overwintering**
Schread, Conn. B. 338: 600-601, 1932.
- Trichogramma spp.—Rearing**
biFlanders, Hilgardia 4: 465-501, 1930.
Hinds, Osterberger & Dugas, Sugar B. 12(20): 5-6, 1934.
Slate, Conn. B. 347: 275, 1933.
- Trichogramma spp.—Refrigeration**
Schread & Garman, J. N.Y. Ent. Soc. 42: 263-283, 1934.

Trichogramma spp. and temperature

Hinds, Sugar B. 10(13): 6-7, 1932.

Facts about Sugar 27: 219, 1932.

Tricholipeurus virginianus

in Peters, P. Ent. Soc. Wash. 32: 76-79, 1930.

Trichomma cnaphalocrocis

bClark, USDA TB 455: 25, 1934.

Trichoniscus (Trichoniscus) demivirgo

bin Blake, Bost. Soc. Nat. Hist. Occ. Pap. 5: 341-345, 1931.

Trichopepla atricornis, semivittata

iBaker, Can. J. Res. 4: 184-187, 1931.

Trichopetalum lunatum

iBlake, B. Bost. Soc. Nat. Hist. 60: 17-19, 1931.

Trichophaga tapetzella (L.) (Carpet moth)*

iBack, USDA FB 1353 rev.: 5, 1931.

biHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 31-40, 1934.

Trichophthalma, T. bivittata

nBequaert, Pan-Pac. Ent. 8: 163-166, 1932.

Trichopoda histrio

Aldrich, PUSNM 80(10): 3, 1931.

Trichopoda pennipes

Bratley, Fla. R. f. 1933: 77; R. f. 1934: 52.

Underhill, Va. Poly. B. 294: 17, 1934.

Watson, Fla. R. f. 1929: 55.

iWatson & Berger, Fla. Ext. B. 67: 101-103, 1932.

Trichopsidea (Parasymmictus) clausa

Bequaert, J. N.Y. Ent. Soc. 42: 182-184, 1934.

Trichoptera

Allen, Nature Mag. 17: 223, 1931.

Banks, Bklyn. Ent. Soc. B. 25: 127-131, 1930.

biBetten et al., N.Y. St. Mus. B. 292, 1934, 576p.

Browne, Can. Ent. 66: 242, 1934.

in Carpenter, Psyche 40: 32-47, 1933.

Crowley, Wash. B. 305: 62, 1934.

Davis, N.Y. St. Mus. B. 292: 82-106, 1934.

iFrost, Nature Mag. 20: 268, 1932.

iLutz, Nat. Hist. 30: 276-281, 1930.

Lutz, Science n.s. 72(1855 sup.): 12, '30.

Martynov, PUSNM 79(25), 1931, 20p.

iOrcutt, N.Y. St. Mus. B. 292: 57-81, 1934.

Pritchard, Can. Field-Nat. 48: 39, '34.

iWeed, Insect Ways: 49-52, 1930.

Trichoptera and disease

Osgood, J. Allergy 5: 367-372, 1934.

iParlato, J. Amer. Med. Assoc. 102: 910-913, 1934.

Trichorhina gianellii

Boone, BAMNH 66: 571-572, 1934.

Trichosteresis vitripennis

nWhittaker, P. Ent. Soc. Wash. 32: 72-73, 1930.

Trichotaphe (Onebala) elliptica

in Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 373, 1931.

in Forbes, P.R. Dept. Agr. J. 15: 373, '31.

Trichotaphe (Onebala) melissia

Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 373-375, 1931.

Trichotaphe (Cymotricha) pectinella

nForbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12(1 sup.): 372-373, 1931.

nForbes, P.R. Dept. Agr. J. 15: 372-373, 1931.

Trichotaphe setosella

Clarke, Can. Ent. 66: 178, 1934.

Trichothrips flumenellus

in Hood, Bklyn. Ent. Soc. B. 26: 159-164, 1931.

Trichothrips graminis

nHood, J. N.Y. Ent. Soc. 41: 409-410, 1933.

Trichothrips hoernerii

nWatson, Fla. Ent. 15: 52-54, 1931.

Trichothrips mediamericanus, militaris

nHood, J. N.Y. Ent. Soc. 41: 411-413, 1933.

Trichothrips moultoni

nHood, P. Biol. Soc. Wash. 47: 66-68, 1934.

Trichothrips occipitalis, orbiceps, tyrannus

nHood, J. N.Y. Ent. Soc. 41: 410-414, 1933.

Trichous bicolor, vittatus

nFisher, PUSNM 80(22): 69-71, 1932.

Trickling filter fly, see Psychoda alternata**Triclonella rhabdophora**

in Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 135-136, 1930.

Tricoryna chalcoponeræ

nBrues, Bklyn. Ent. Soc. B. 29: 203-205, 1934.

- Tricorythodes spp.**
in McDunnough, Can. Ent. 63: 264-268, 1931.
- Tricyclea spp.**
nCurran, Amer. Mus. Nov. 506: 6-11, 1931.
- Tricyphona spp.**
nAlexander, Bklyn. Ent. Soc. B. 25: 72-73, 280-281, 1930; 26: 179-181, '31.
nAlexander, Bost. Soc. Nat. Hist. Occ. Pap. 5: 277, 1930.
- Tridactylus minutus**
in Hebard, Trans. Amer. Ent. Soc. 59: 65-66, 1933.
- Tripeolus brittani**
nCockerell, Can. Ent. 63: 279, 1931.
- Trifidaphis phaseoli**
Cutright, J. Ec. Ent. 26: 509, 1933.
- Trigona cressoni**
iLutz, Amer. Mus. Nov. 641, 1933, 26p.
- Trigona impunctata isopterophila** 21-22,
mosquito domicillorum 16-18
nSchwarz, Amer. Mus. Nov. 731, 1934.
- Trigona pallida**
iSchwarz, Nat. Hist. 32: 552-553, 1932.
- Trigona spp.**
bBates, Fla. Ent. 17: 47, 1933.
Chapin, Nat. Hist. 31: 609, 1931.
- Trigonalidae**
iClausen, P. Ent. Soc. Wash. 33: 72-81, 1931.
- Trigoniulus lumbricinus**
Williams, Hawaiian Ent. Soc. P. 8: 235, 1933.
biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 314-315, '31.
- Trigonomartus whitei**
nEwing, Ann. Ent. Soc. Amer. 23: 642-643, 1930.
- Trigonoscuta pilosa**
Keifer, Ent. Amer. n.s. 13: 57, 1932.
- Trigonurus dilatocollis**
in Van Dyke, Bklyn. Ent. Soc. B. 29: 179-180, 1934.
- Trimerotropis fontana**
Buckell, B.C. Ent. Soc. P. 27: 37, 1930.
- Trimerotropis maritima**
Hebard, Minn. TB 85: 31, 1932.
- Trimerotropis pallidipennis**
Buckell, B.C. Ent. Soc. P. 27: 36-37, '30.
Hebard, Trans. Amer. Ent. Soc. 57: 119-120, 1931.
- Trimerotropis suffusus**
Buckell, B.C. Ent. Soc. P. 27: 37-39, 1930.
- Trinidad frog hopper, see Tomaspis saccharina**
- Triodoclytus, T. lanifer**
biHopping, Ann. Ent. Soc. Amer. 25: 565-566, 1932.
- Trionymus angustus**
in Cockerell & Bueker, Amer. Mus. Nov. 441: 6-7, 1930.
- Trionymus boninsis, see Pseudococcus boninsis**
- Trionymus claviseta**
in Lobdell, Ann. Ent. Soc. Amer. 23: 218, 1930.
- Trionymus insularis**
Swezey, Hawaiian Ent. Soc. P. 8: 12, 1932.
- Trionymus insularis—Parasites**
Swezey, Hawaiian Ent. Soc. P. 7: 387, 1931; 8: 273, 1933.
- Trionymus interjecti**
in Bueker, Amer. Mus. Nov. 453: 3, 1931.
- Trionymus mori**
in Lobdell, Ann. Ent. Soc. Amer. 23: 218-219, 1930.
- Trionymus rostellum**
in Lobdell, Ann. Ent. Soc. Amer. 23: 219-220, 1930.
- Trionymus sacchari (Pink sugar cane mealybug)**
Barreto, Assoc. Tecn. Azucar Cuba P. 5: 132-134, 1932.
Barreto, Facts about Sugar, 27(3): 136, 1932.
Loftin, Assoc. Tecn. Azucar. Cuba P. 4: 55, 1930.
iPemberton, Hawaiian Sugar Pl. Assoc. P. 51: 584-586, 1932.
Pemberton, Facts about Sugar 27: 485, 1932.
Swezey, Mid-Pac. Mag. 42: 327, 1931.
Facts about Sugar 26: 475, 1931.
- Trionymus sacchari—Parasites**
Pemberton, Assoc. Hawaiian Sugar Tech. R. 11: 49, 1932.
bPemberton, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 3, [P. Pt. 2]: 1, '32.
- Trionymus setosus**
in Lobdell, Ann. Ent. Soc. Amer. 23: 220-221, 1930.

- Trionymus varus*
inLobdell, Ann. Ent. Soc. Amer. 23: 222, 1930.
- Trioza albifrons*
iKlyver, Can. Ent. 62: 169-170, 1930.
- Trioza alifumosa, alipellucida*
inKlyver, Bernice P. Bishop Mus. B. 98: 96-99, 1932.
- Trioza koebelei*
biMex. Agr. & Fomento. Principales Plagas: 121-122, 1930.
- Trioza maura*
Klyver, Pan-Pac. Ent. 8: 14, 1931.
- Trioza tripunctata*
Britton, Conn. B. 344: 87, 1933.
Woodward & Waller, N.J. Agr. Exp. Sta. 1880-1930: 242, 1932.
- Trioza urticae*
iKlyver, Can. Ent. 62: 169, 1930.
- Triphleps insidiosus*, see *Orius insidiosus*
- Triphleps persequens*, see *Orius persequens*
- Triphleps tristicolor*, see *Orius tristicolor*
- Tripeuxoa carneata*
nForbes, Ent. Amer. n.s. 14: 23-24, '33.
- Trirhabda luteocincta*
Sweet, J. Ent. & Zool. 22: 95, 1930.
- Trirhabda* spp.
inBlake, PUSNM 79(2): 1-36, 1932.
- Trirhithrum facetum, inauratipes*
nMunro, Amer. Mus. Nov. 597: 6-8, '33.
- Trishormomyia bambusae*
nFelt, Bklyn. Ent. Soc. B. 27: 124, 1932.
- Trissolcus euschisti*
Underhill, Va. Poly. B. 294: 18, 1934.
- Trissolcus murgantiae*
White & Brannon, USDA FB 1712: 5, 1933.
- Trissolcus podisi*
White & Brannon, USDA FB 1712: 5, 1933.
- Tritogenaphis eupatorifoliae*
inTissot, Fla. Ent. 18: 20-23, 1934.
- Tritoxa flexa* (Black onion fly)
Essig, J. Ec. Ent. 25: 727-728, 1932.
- Trochorhopalus strangulatus*
Howard, Hist. of Appl'd Ent.: 408, '30.
- Troctes divinatorius* (Mull.) (Booklouse)*
Back & Cotton, USDA FB 1260 rev.: 41-42, 1930.
Finlayson, Ent. Soc. Ont. R. 63: 56-58, 1932.
- Giovannoli, Bailey, Cave Life of Ky.: 231, 1933.
- iRosewall, Ann. Ent. Soc. Amer. 23: 192-194, 1930.
- Whitehead, J. Ec. Ent. 26: 293, 1933.
- Trogoderma granarium*
iNakayama Pac. Sci. Cong. 5, P. 5: 3573-3575, 1934.
- Trogoderma tarsale*
iBack & Cotton, USDA FB 1260 rev.: 38-39, 1930.
- Trogoderma versicolor*
Gardner, Mich. Bien. R. f. 1930: 27.
iHerrick & Griswold, N.Y. (C.) Ext. B. 202 rev.: 43-45, 1934.
Pettit, Mich. Ent. R. f. 1930: 15.
Pettit, Mich. St. Bd. Agr. R. 69: 217, 1930.
Twinn, Ent. Soc. Ont. R. 64: 80, 1933.
bTwinn, Can. Ent. 66: 49-51, 1934.
- Trogophloeus (Taenosoma) porosus*
nCameron, Conn. Acad. Arts & Sci. Mem. 10: 18, 1934.
- Trogosia mauritanica*
iPeña, La Hacienda 25: 74, 1930.
- Tromatobia rufopectus*
Pemberton, Hawaiian Ent. Soc. P. 8: 379, 1934.
Rosa, Hawaiian Ent. Soc. P. 8: 230, '33.
Swezey, Hawaiian Ent. Soc. P. 8: 236, 274, 305-306, 1933.
- Tromatobia zonata*
Hubbell, Ann. Ent. Soc. Amer. 25: 504, 1932.
- Trombicula—Key**
Ewing, PUSNM 82(20): 1-2, 1933.
- Trombicula akamushi* and *Tsutsugamushi* fever
Cecil, Text-book of Med. ed. 3: 511, '34.
Rawson, Sci. Month. 39: 510, 1934.
- Trombicula dunni*
Dunn, Psyche 41: 183, 1934.
inEwing, PUSNM 80(8): 12-13, 1931.
- Trombicula irritans* (Chigger)*
Bishopp & Wood, USDA FB 801 rev.: 8, 1931.
Buckley, USDA FB 1652: 60, 1931.
Buckley & Bunyea, USDA FB 1652 rev.: 64-65, 1933.
Caler, J. Kans. Ent. Soc. 4: 95-96, '31.
Ewing, Ann. Ent. Soc. Amer. 24: 746-750, 1931.

- Ewing, Amer. Nat. 67: 371-372, 1933.
 iFranklin, Amer. For. 36: 527, 1930.
 iHall, USDA C. 338 rev.: 11, 1934.
 Hingston, Nat. Geog. Mag. 62: 625, 1932.
 Lamon & Kinghorne, Pract. Poult. Prod. rev.: 328-329, 1930.
 biMatheson, Med. Ent.: 80, 419-420, 1932
 Mayo, Fla. Dept. Agr. B. 34 n.s.: 57-58, 1930.
 Metcalf, Ill. St. Acad. Sci. Trans. 23: 270, 1931.
 Rawson, Sci. Month. 39: 509-510, '34.
 Schwartz & Shook, USDA FB 1568 rev.: 10, 1931.
 Stoddard, Bobwhite Quail: 320-322, 1931.
 Walker, Flow. Grow. 17: 468, 1930.
- Trombicula spp.**
 inEwing, PUSNM 80(8): 3-6, 11-14, '31.
 Watson, Fla. Grow. 40(12): 23, 1932.
- Trombicula tlalzahuatl**
 Jacobs, Flow. Grow. 17(1): 25, 1930.
 Sanderson, Ins. Pests Farm ed. 3: 544-545, 1931.
- Trombiculidae**
 Ewing, PUSNM 80(8): 1-19, 1931.
- Trombidium holosericum (Harvest mite)**
 Regenos, Allied Vet. 2(4): 9, 1931.
 Vet. Med. 25: 348, 1930.
- Trombidium sp.—On grasshopper**
 iWeed, Insect Ways: 256-268, 1930.
- Tropaea luna (L.) (Luna moth)***
 iBeard, Amer. Boys' Bk. Bugs: 69-75, 1932.
 Birdsong, Can. Ent. 64: 263, 1932.
 iHaller, Nature Mag. 22: 71-73, 1933.
 McDaniel, Mich. Sp. B. 243: 52, 1933.
 Rummel, Bklyn. Ent. Soc. B. 28: 232, 1933.
 Wickwire & Calale, Can. Ent. 65: 56-57, 265-268, 1933.
- Trophops, T. clauseni**
 nAldrich, PUSNM 81(9): 22-23, 1932.
 biClausen, Jaynes & Gardner, USDA TB 366: 11-13, 1933.
- *Tropical horse tick, see Dermacentor nitens Neum.**
- *Tropical rat mite, see Liponyssus bacoti**
- Tropical warble fly, see Dermatobia hominis**
- Tropidacris dux**
 Hebard, Trans. Amer. Ent. Soc. 58: 271-272, 1932.
- Tropidarnis**
 Ball, Ent. Amer. n.s. 12: 64-65, 1931.
- Tropideres barberi**
 nPierce, PUSNM 77(17): 13, 1930.
- Tropidischia xanthostoma**
 Buckell, B.C. Ent. Soc. P. 27: 47-48, 1930.
- Tropidophryne, T. africana**
 inCompere, Cal. Univ. Pub. Ent. 5: 269-272, 1931.
- Tropidophryne flandersi**
 nCompere, Can. Ent. 65: 247, 1933.
- Tropiduchidae—Cuba**
 biMetcalf & Bruner, Psyche 37: 393-424, 1930.
- Tropisternus**
 Lutz, Amer. Mus. Nov. 498: 3, 1931.
- Tropisternus californicus**
 iElson, Amer. Nat. 67: 283-286, 1933.
- Tropisternus columbianus**
 nBrown, Can. Ent. 63: 117, 1931.
- Tropisternus glaber**
 biPayne, J. Morph. 53: 545-546, 1932.
- Tropisternus quadristriatus**
 Fall, Ent. News 41: 238-240, 1930.
- Tropisternus sp.—Pyrethrum**
 Richmond, J. Ec. Ent. 27: 973, 1934.
- Tropisternus sublaevis**
 Fall, Ent. News 41: 238-240, 1930.
- Trox suberosus**
 iSim, USDA C. 334: 11, 1934.
- Truck crop insects**
 Blanchard & Conger, J. Ec. Ent. 25: 1059-1070, 1932.
 Caffrey, Md. Agr. Soc. R. 19: 272-278, 1934.
 Clausen, USDA C. 168: 62-64, 1931.
 bFolsom, J. Ec. Ent. 26: 934-935, 1933.
 Gould, Va. Truck B. 71: 811-835, 1930.
 Hopkins, La. Ext. C. 146: 60, 1931.
 Howard, Ohio Veg. Grow. Assoc. P. 18: 139-140, 1933.
 Hyslop, Inter-Amer. Conf. Agr. For. & Animal Indus. Wash., D.C. Doc. Material 2: 210-214, 1930.
 Langford, Peninsula Hort. Soc. Trans. f. 1931: 73-80.
 Mackie, Cal. Agr. Mo. B. 21: 477-478, 1932.

Truck crop insects *Cont'd*

Marlatt, USDA Ent. R. f. 1931: 31-44.

Mote, Oreg. St. Hort. Soc. R. 24: 88-94, 1932.

Mumford, Ill. R. 44: 144-145, 1931.

Mumford, Mo. Ext. C. 302: 42, 1933.

Roney & Jones, Tex. R. 47: 51-52, '34.

Roney & Thomas, Tex. R. 45: 40, 1932.

Skinner & Reed, Ind. R. 44: 28, 1931.

Symons, Md. Ext. R. 18: 63, 1933.

Thomas, Penn. St. Col. B. 258: 37, '30.

iWatson, Fla. B. 232, 1931. 112p.

Weir, Can. Min. Agr. R. f. 1933-1934: 54-56.

Truck crop insects—Parasites

iSwezey, Hawaii Farm Ann. 2(12): 31, 1934.

Trypanea, see Trypanea**Tryophagus putrescentiae**

iWhitehead, Sci. Agr. 13: 753-754, 1933.

Trypanea apivora, see Promachus fitchii**Trypanea spp.**

biBenjamin, USDA TB 401: 52-57, 1934.

inCurran, Amer. Mus. Nov. 474: 4, 1931.

inCurran, Amer. Mus. Nov. 556: 7-9, '32.

inMalloch, Bernice P. Bishop Mus. B. 98: 146-147, 1932.

Trypaneidae

Curran, Amer. Mus. Nov. 456: 14, 1931; Nov. 556: 1932. 19p.

Trypeta

biBates, Ann. Ent. Soc. Amer. 27: 1-4, 1934.

Burdette, J. Ec. Ent. 23: 260-265, '30.

Trypeta electa, see Zonosemata electa**Trypeta ludens, see Anastrepha ludens****Trypeta pomonella, see Rhagoletis pomonella****Trypeta versatilis**

inCurran, Amer. Mus. Nov. 556: 13-14, 1932.

Trypetidae (Fruit flies)

biBates, Bklyn. Ent. Soc. B. 28: 160-172, 1933.

binBates, Psyche 40: 48-56, 1933.

biBenjamin, USDA TB 401, 96: 1934.

Janes & Thomas, Utah Acad. Sci. P. 9: 103-104, 1932.

iMalloch, Bernice P. Bishop Mus. B. 98: 145-147, 1932.

iMunro, Amer. Mus. Nov. 597, 1933. 10p. Nov. 739, 1934. 5p.

Smith, Cal. Agr. Mo. B. 19: 245-248, 1930.

Tryphon'(S. lat.) amasidis

inCockerell & Leveque, Amer. Nat. 65: 356, 1931.

Tryphon incestus, semirufus

iClausen, P. Ent. Soc. Wash. 34: 57-59, 1932.

Tryphoninae

iClausen, P. Ent. Soc. Wash. 34: 49-60, 1932.

McConnell, P. Ent. Soc. Wash. 36: 262, 1934.

Walley, Can. Ent. 64: 242-247, 1932.

Trypodendron cavitrons and temperature

iHopping & Jenkins, Can. Dept. Int. For. Serv. C. 38, 1933. 14p.

Trypopremnon spp.

iMurillo, Agr. Mex. 1: 150-151, 1934

Trypoxylon figulus

Step, Bees, Wasps, Ants: 99, 1932.

Trypoxylon philippinensis

Swezey, Hawaiian Ent. Soc. P. 7: 333, 1931.

Trypoxylon politum

iDow, B. Bost. Soc. Nat. Hist. 56: 14-15, 1930.

Trypoxylon tridentatum

bHicks, Univ. Col. Studies 21: 267, 1934.

Rau, Can. Ent. 66: 259, 1934.

Tsetse flies

Bequaert, Ent. News 41: 158-164, 202-203, 227-233, 1930.

Strong, Bequaert & Cleveland, Amer. Comm. Intern. Wild Life Prot. Sp. Pub. 1(1), 1931. 46p.

J. Amer. Med. Assoc. 99: 266, 1932.

Tsetse flies—Traps

Harris, Sci. News Letter 19: 233, 1931.

Tsetse flies and disease

J. Amer. Med. Assoc. 98: 1314, 1932.

Tsetse flies and Sleeping sickness

Science n.s. 78(2018 sup.): 9-10, 1933.

Tsinilla

nHeinrich, PUSNM 79(13): 14, 1931.

Tuberculatus kiowanica

nHottes, P. Biol. Soc. Wash. 46: 8-9, '33.

Tuberculatus punctatella

Miller, Ent. News 44: 105-107, 1933.

Tuberculatus ulmifolii

Hottes & Frison, Ill. Nat. Hist. Surv. B. 19(3): 272, 1931.

- Tuberolachnus viminalis*
iKnowlton, Can. Ent. 62: 159-161, '30.
- Tuganobia, T. potteria*
niChamberlin, Pan-Pac. Ent. 9: 122, 124, 1933.
- Tularaemia*
Buckell, B.C. Ent. Soc. P. 31: 13-14, 1934.
Hastings, South. Med. J. 24: 58, 1931.
Parker, Philip & Davis, U.S. Pub. Health R. 47: 479-487, 1932.
bPhilip, Davis & Parker, U.S. Pub. Health R. 47: 2077-2088, 1932.
- Tule billbug, see Calendra discolor*
- Tulip bulb aphid, see Anuraphis (gladioli) tulipae*
- Tulip insects*
iGregory, Farm J. 55(6): 18, 1931.
- **Tuliptree scale, see Toumeyella lirioidendri* (Gml.)
- Tullbergia clavata, granulata*
inMills, Collembola of Iowa: 37-39, 1934.
- Tullbergia iowensis*
inMills, Iowa J. Sci. 6: 264-265, 1932.
- Tullbergia silvicola*
inFolsom, Hawaiian Ent. Soc. P. 8: 57, 1932.
- Tumagenia, T. iris*
nBanks, Amer. Acad. Arts & Sci. P. 69(1): 67, 1934.
- Tumble bugs, see Scarabaeidae*
- Tumecauda, T. schaefferi*
niGoding, Amer. Mus. Nov. 421: 2-3, '30.
- Tumidiscapus flavus*
biGahan, USDA Misc. Pub. 174: 121-124, 1933.
- Tumidiscapus orchelimumis*
nGahan, Ann. Ent. Soc. Amer. 25: 741-742, 1932.
- Tung tree—Insects—Diseases*
Newell et al, Fla. B. 221: 57, 1930.
- Tunga penetrans* (L.) (Chigoe)*
Cecil, Text-book of Med. ed. 3: 514, 1934.
biFaust & Maxwell, Arch. Derm. & Syph. 22: 94-97, 1930.
Lillingston, Hygeia 12: 1093, 1934.
Metcalf, Ill. St. Acad. Sci. Trans. 23: 271, 1931.
iRiley & Johannsen, Med. Ent.: 396-399, 1932.
Rawson, Sci. Month. 39: 505, 1934.
- **Turkey gnat, see Simulium meridionale*
- Turkey lice, see Goniodes stylifer, Li-peurus polytrapezius*
- **Turnip aphid, see Rhopalosiphum pseudo-brassicae* (Davis)
- Turnip insects*
Caesar, Ent. Soc. Ont. R. 65: 84-85, 1934.
- Turnip maggot, see Hylemya brassicae*
- Turnip plant louse, see Rhopalosiphum pseudobrassicae*
- Turnip webworm, see Hellula undalis*
- Turpentine borer, see Buprestis apricans*
- Turpilliodes*
nHebard, Trans. Amer. Ent. Soc. 58: 315-316, 1932.
- Turtle-back scale, see Coccus hesperidum*
- Twelve-spotted cucumber beetle, see Diabrotica duodecimpunctata*
- **Twice-stabbed ladybeetle, see Chilocorus bivulnerus* Muls.
- **Twig girdler, see Oncideres cingulatus*
- **Twig pruner, see Hypermallus villosus*
- Twiningia, T. magnata, malvastra*
nBall, Bklyn. Ent. Soc. B. 26: 93-95, '31.
- **Two-lined chestnut borer, see Agrilus bilineatus*
- Two-lined grasshopper, see Melanoplus bivittatus*
- **Two-spotted ladybeetle, see Adalia bipunctata*
- Two-spotted mite, see Tetranychus bimaculatus*
- Two-spotted red spider, see Tetranychus bimaculatus*
- **Two-striped grasshopper, see Melanoplus bivittatus*
- **Two-striped walkingstick, see Anisomorpha buprestoides*
- Tychius griseus Schaeffer* (Clover-head weevil)*
bBaker, J. Ec. Ent. 27: 1103-1104, 1934.
Hyslop, J. Ec. Ent. 27: 563, 1934.
- Tydeus ubiquitous*
inMcGregor, P. Ent. Soc. Wash. 34: 62-63, 1932.
- Tylenchus*
Heald, Man. of Pl. Dis. ed. 2: 881, 1933.
- Tylenchus alatus and Chinchona infection*
Strong & Shattuck, Harv. Univ. Inst. Trop. Biol. Contrib. 5: 407, 409, '30.

- Tylenchus dipsaci** (*Narcissus nematode*)
 iChambers & Thompson, Wis. Dept. Agr. B. 145: 80-81, 1933.
 iDearing & Griffiths, N.C. Dept. Agr. B. Jan. 1930: 47-52.
 Doane, Common Pests: 308-309, 1931.
 Essig & Hoskins, Cal. Ext. C. 87: 30, 1934.
 iGlasgow, N.Y. St. Mus. C. 13, 1933. 12p.
- bGriffiths, USDA C. 122: 60, 1930.
 iGussow, Can. Dept. Agr. Pam. 144 n.s., 1932. 11p.
 Jardine, USDA PQCA Q-62, June, '32.
 iMcDaniel, Mich. Sp. B. 214: 23, 1931.
 McWhorter & Weiss, Oreg. B. 304: 7-17, 1932.
 Spruijt & Blanton, J. Ec. Ent. 26: 613-620, 1933.
 iSteiner & Buhner, Phytopath. 23: 103-105, 620-621, 1933.
 Strong, Amer. Flor. 73(2221): 27, 1931.
 Strong, USDA BPQ SRA 112: 81, 1932.
 Strong, USDA BPQ R. f. 1933: 31.
 iThorne, USDA YB f. 1932: 99-101.
 Wallace, Ind. Dept. Conserv. R. 13: 61, 1931.
 Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1931: 35, 1932.
 J. Ec. Ent. 23: 655, 1930.
- Tylenchus pratensis**
 iLehman, N.C. R. 54: 73-76, 1931.
- Tylenchus tritici**
 iHeald, Man. of Pl. Dis. ed. 2: 882-892, 1933.
- Tylocentrus reticulatus**
 Ball, P. Biol. Soc. Wash. 46: 32, 1933.
- Tyloderma fragariae** (Riley) (Strawberry crown borer)*
 Baerg, Ark. B. 312: 34-35, 1934.
 Brannen, Ark. B. 297: 7, 1934.
 Brooks, Watson & Mowry, Fla. Co-op. Ext. B. 63: 48, 1932.
 iDavis, Ind. Acad. Sci. P. 40: 313, 1931.
 Dean, Kans. St. Hort. Soc. Bien. R. 40: 143, 1930; R. 42: 138-139, 1934.
 Eddy et al, Ky. B. 353: 236, 1934.
 Haseman & Johnson, Missouri B. 328: 29, 1933.
 Price & Eddy, Ky. St. Hort. Soc. Trans. 77: 117-118, 1932.
- Sullivan, Missouri B. 285: 75-76, 1930.
 Wallace, Ind. Dept. Conserv. R. 11: 55-56, 1929; R. 13: 53-54, 1931; R. 14: 54, 1932.
 Wallace, Ind. YB f. 1930: 482-483.
 Wallace, Ind. Dept. Conserv. Div. Ent. R. f. 1931: 27-28, 1932.
- Tyloderma morbillosa**
 Jones & Hanson, Wash. Ext. B. 180: 10, 1933.
 Van Dyke, Pan-Pac. Ent. 6: 164, 1930.
- Tylonotus bimaculatus**
 Hamilton, Nat. Shade Tree Conf. P. 9: 61-62, 1933.
- Tylos niveus**
 iBoone, BAMNH 66: 597-598, 1934.
- Typha insects**—Parasites
 bCole, Ent. News 41: 6-11, 1931; 42: 35-39, 1932.
- Typhlocyba pomaria** McAtee (White apple leafhopper)*
 Ackerman, USDA TB 263: 4-6, 15-17, 1931.
 Chapman, N.Y. St. Hort. Soc. P. 79: 202, 1934.
 iChapman & Hammer, N.Y. (Gen.) B. 606: 28-31, 1932.
 Chapman et al, J. Ec. Ent. 25: 582-586, 1932.
 Drinkard, Va. Poly. R. f. 1927/1931: 37.
 Garman, Conn. B. 338: 572, 1932.
 Garman, Conn. Pom. Soc. P. 41: 38-40, 1932.
 Garman, Mass. Fr. Grow. Assoc. R. 38: 128-129, 1932.
 iGarman, J. Ec. Ent. 27: 361-364, 1934.
 iGarman & Townsend, Conn. B. 349: 429-432, 1933; B. 360: 449-451, '34.
 Hedrick, N.Y. (Gen.) R. 51: 55, 70, 1932.
 Hodgkiss, Penn. St. Hort. Assoc. P. 74: 37, 1933.
 Hough, J. Ec. Ent. 24: 327, 1931.
 Iddings, Ida. B. 179: 30, 1931; B. 197: 37-38, 1933.
 Ladd, N.Y. (Gen.) R. 52: 56, 66-69, 1933.
 iNewcomer, USDA C. 270: 35-37, 1933.
 bSchoene, Va. Poly. Inst. B. 283: 23-26, 1932.

- Schoene, J. Ec. Ent. 26: 325-329, 1933.
 Slate, Conn. B. 357: 124, 1934.
 Street et al, J. Ec. Ent. 24: 240-244, 1931.
 Twinn, Que. Soc. Prot. Pl. R. 23/24: 156, 1932.
 Twinn, Ent. Soc. Ont. R. 65: 120, 1934.
- Typhlocyba pruni**
 in DeLong & Davidson, Ohio J. Sci. 34: 161-162, 1934.
- Typhlocyba rosae (L.) (Rose leafhopper)***
 Chambers & Thompson, Wis. Dept. Agr. B. 145: 70, 1933.
 Garman, Mass. Fr. Grow. Assoc. R. 38: 128, 1932.
 iGibson, Can. Dept. Agr. B. n.s. 99 rev.: 45, 1934.
 Pettit & Hutson, Mich. CB 137: 7-8, 1931.
 Quaintance & Siegler, USDA FB 1270 rev.: 29-30, 1931.
 biSoraci, N.J. Dept. Agr. C. 243: 52-53, 1934.
- Typhlocybinæ, see Eupteryginae**
- Typhus fever (Endemic)**
 biCeder et al, U.S. Pub. Health R. 46: 3103-3106, 1931.
 iDove & Shelmire, J. Amer. Med. Assoc. 97: 1506-1511, 1931.
 bDove & Shelmire, J. Parasit. 18: 159-168, 1932.
 Dyer, Mil. Surgeon 72: 421-439, 1933.
 Dyer, U.S. Pub. Health R. 48: 521-522, 1933.
 biDyer et al, U.S. Pub. Health R. 46: 2415-2416, 2481-2499, 1931; 47: 131-133, 931-932, 987-994, 1329-1331, 1932.
 Hamilton, N.C. Health B. 45(4): 29-31, 1930.
 Mooser & Castaneda, J. Exper. Med. 55: 307-323, 1932.
 Mooser & Dummer, J. Infect. Dis. 46: 170-172, 1930.
 Rumreich, Dyer & Badger, U.S. Pub. Health R. 46: 470-480, 1931.
 Sci. News Letter 18: 30, 1930; 21: 154, 1932.
- Typocerus sinuatus**
 iGoldman, Trans. Amer. Ent. Soc. 59: 92-93, 1933.
 Lacy, J. N.Y. Ent. Soc. 39: 497, 1931.
- Typophyllum pererosum**
 in Hebard, Trans. Amer. Ent. Soc. 59: 60-61, 1933.
- Tyria jacobaeae**
 Tillyard, Pac. Sci. Cong. 5, P. 5: 3550, 1934.
- Tyroglyphus lintneri (Mushroom mite)**
 iEssig & Hoskins, Cal. Ext. C. 87: 61-62, 1934.
 Lambert, USDA C. 251: 27, 1932.
 Mumford, Ill. R. 46: 157, 1933.
 biThomas, Penn. St. Coll. B. 258: 38, 1930; B. 270: 31-33, 1931.
 Thomas, J. Ec. Ent. 27: 207, 1934.
- Tyroglyphus siro**
 J. Wash. Acad. Sci. 20: 189, 1930.
- Tyrellia ovalis**
 binMarshall, Wis. Acad. Sci. Trans. 27: 342-343, 1932.
- Tytthonyx bicolor**
 nHinton, Pan-Pac. Ent. 10: 30-32, 1934.
- Ufens beneficus, ormenidis**
 nDozier, P. Ent. Soc. Wash. 34: 33-36, 1932.
- Ufens osborni**
 iBruner, Rev. de Agr. Cuba 14(19): 35-36, 1934.
 nDozier, P. Ent. Soc. Wash. 34: 36-37, '32.
- *Ugly-nest caterpillar, see Cacoecia cerasivorana (Fitch)**
- Ujimya sericaria**
 Howard, Hist. of Appl'd Ent.: 340, '30.
- Uloma imberbis**
 Frost, Bklyn. Ent. Soc. B. 25: 101, '30.
- Uloma punctulata**
 Kingsbury, Psyche 37: 177, 1930.
- Ultraviolet rays—Effect on insects**
 biBertholf, J. Agr. Res. 43: 703-713, '31.
 biLucas & Stark, J. Morph. 52: 91-111, 1931.
 Lutz & Burlingame, J. N.Y. Ent. Soc. 42: 233-234, 1934.
- biMacLeod, Ann. Ent. Soc. Amer. 26: 603-615, 1933.**
 Steen, Ind. Acad. Sci. P. 43: 224-227, '33.
 iSci. News Letter 22: 417, 1932.
- Ultraviolet rays—Lepidoptera**
 Lutz & Burlingame, J. N.Y. Ent. Soc. 42: 233-234, 1934.
- Umbonia crassicornis**
 iGoding, J. N.Y. Ent. Soc. 38: 47, 1930.

- Umbonia octolineata, sordida**
nGoding, Amer. Mus. Nov. 421: 9-10, 1930.
- Unaspis citri, see Chionaspis citri**
- Unaspis euonymi, see Chionaspis euonymi**
- Unionicola ypsilophorus**
Welsh, Biol. B. 61: 497-499, 1931.
- Uiptera, U. ampliata**
nBall, Pan-Pac. Ent. 9: 133-134, 1933.
- U.S. European parasite laboratory**
Science n.s. 74(1927 sup.): 12-14, 1931.
- U.S. Pub. Health Service—Mosquito control**
Williams, N.J. Mos. Exterm. Assoc. P. 19: 64-70, 1932.
- Unmarked cutworm, see Agrotis phylophora**
- Uranotaenia—Key**
biMatheson, Mos. of North Amer.: 200-202, 1929.
- Uranotaenia lowii**
Hinman, J. Parasit. 20: 339, 1934.
- Uranotaenia sapphirina**
iBishopp, Cory & Stone, P. Ent. Soc. Wash. 35: 5, 1933.
bGerry, Ann. Ent. Soc. Amer. 25: 38, 1932.
Hinman, J. Parasit. 20: 339, 1934.
Stearns et al, Del. B. 181: 86, 1933.
- Uranotaenia spp.**
Hinman, J. Parasit. 20: 339, 1934.
- Urogomphus giganteus**
biCarpenter, Carnegie Mus. Ann. 21: 108-109, 1932.
- Urosigalphus bruchi**
Swezey, Hawaiian Ent. Soc. P. 7: 366, 1931.
- Urothripidae**
Hood, P. Biol. Soc. Wash. 46: 213-216, 1933.
- Urothrips minor, paradoxus**
inFaure, Bklyn. Ent. Soc. B. 28: 69-73, 1933.
- Uscana semifumipennis**
Swezey, Hawaiian Ent. Soc. P. 7: 332, 365, 1931.
- Uschizactia**
nTownsend, J. N.Y. Ent. Soc. 42: 248, 1934.
- Utethesia bella**
Bratley, Fla. R. f. 1933: 77.
- Utethesia ornatrix (Rattlebox moth)**
Leonard, P.R. Dept. Agr. J. 16: 123, 131, 1932.
- Uxoricides**
iThone, Sci. News Letter 22: 171, 1932.
- Vacavacahan (Cotton stainers), see Dysdercus spp.**
- Veajovis boreus**
Exline, Pan-Pac. Ent. 8: 84, 1931.
iKurata, Can. Field-Nat. 44: 28-30, '30.
- *Vagabond crambus, see Crambus vulgivagellus Clem.**
- Valenga marquesana**
Mumford, Hawaiian Ent. Soc. P. 8: 224, 1933.
- Valgus californicus**
Hinton, Pan-Pac. Ent. 7: 95, 1930.
- Vanduzeeia arquata**
biAndrews, Physiol. Zool. 3: 469-477, 1930.
Britton, Conn. B. 344: 127, 1933.
- Vanduzeeia laeta**
Ball, P. Biol. Soc. Wash. 45: 82, 1932.
- Vanduzeeia aenescens, slevini**
nUsinger, Pan-Pac. Ent. 6: 131-132, 1930; 9: 30, 1933.
- Vandykea, V. tuberculata**
niLinsley, Pan-Pac. Ent. 8: 118-120, '32.
- Vanessa—Lepidoptera sub-comm., Rept. 1**
Bell et al, Ent. News, 45: 160, 1934.
- Vanessa antiopa**
iScoville, Nature Mag. 20: 160, 1932.
- Vanessa atalanta (Red admiral)***
Cook, Nature Mag. 20: 295, 1932.
Saunders, N.Y. St. Mus. Hdbk. 13: 80-83, 1932.
Swezey, Hawaiian Ent. Soc. P. 8: 274, 1933.
- Vanessa cardui (Painted lady)***
Britton, Conn. B. 338: 594, 1932.
Essig & Hoskins, Cal. Ext. C. 87: 58, 1934.
biMartin & Cotner, Ann. Ent. Soc. Amer. 27: 372-383, 1934.
Saunders, N.Y. St. Mus. Hdbk. 13: 72-75, 1932.
Thone, Sci. News Letter 22: 138: 1932.
- Vanessa virginiensis (Painted beauty)***
Dornfeld, Ent. News 42: 287, 1931.
iSaunders, N.Y. St. Mus. Hdbk. 13: 75-79, 1932.

- *Varied carpet beetle, *see* *Anthrenus verbasci*
- *Variegated cutworm, *see* *Lycophotia margaritosa saucia*
- Variegated fritillary, *see* *Euptoieta claudia*
- Variegated tessellate, *see* *Hesperia tessellata*
- Vectura fulvescens*
nBlaisdell, Pan-Pac. Ent. 10: 71-73, '34.
- Vectura (Vecturoides) pseudonycha*
nFall, Can. Ent. 62: 256, 1930.
- **Vedalia*, *see* *Rodolia cardinalis*
- †Vegetable insects
- Baird, Ont. Veg. Grow. Assoc. R. 26: 38-41, 1931.
- Britton, Conn. B. 315: 493-495, 1930: B. 327: 464-466, 1931.
- iBritton, Conn. Veg. Grow. Assoc. R. 17: 48-51, 1930; R. 18: 37-43, 1931; R. 19: 48-50, 1932.
- Buckell, Ent. Soc. Ont. R. 60: 32-33, 1930.
- Burdette, N.J. R. 50: 180-184, 1929; R. 51: 169-170, 1930; R. 52: 197-199, 1931.
- Burdette, N.J. Dept. Ent. R. f. 1930: 169-174, 1931.
- Burdette, N.J. St. Hort. Soc. P. f. 1930: 152-162, 1931; P. f. 1931, 153-170, 1932.
- Burdette, J. Ec. Ent. 26: 672-674, '33.
- iBurdett & Headlee, N.J. C. 311, 1934: 31p.
- iCaesar, Ont. Dept. Agr. B. 359, 1931, 67p.
- Caesar, Veg. Grow. Assoc. Amer. R. f. 1934: 103-109.
- Cacsar & Ross, Ent. Soc. Ont. R. 63: 16-17, 1932.
- Call, Kans. Bien. R. 5: 108, 1930.
- Clark, Tex. Cit. 10(5): 12, 15-16, 1933.
- Compton, Ill. St. Hort. Soc. Trans. 64: 423-432, 1930.
- iCompton, Ill. C. 391, 1932: 48p.
- Cory, Md. Agr. Soc. R. 14: 389-393, 1929; R. 18: 217-220, 1934.
- iCoulson & Brittain, Maritime Farm. 38(18): 4-5, 1933.
- iCrosby & Chupp, N.Y. (C.) Ext. B. 206, rev. 1933, 101p.; B. 278, 1934, 87p.
- iDavis, Ind. Ext. B. 186: 1932, 20p.
- Davis, Ind. Acad. Sci. P. 43: 197-198, 1933.
- iDustan, Can. Dept. Agr. Ent. B. 32: 1932, 74p.
- iDustan, Can. Dept. Agr. B. 161 n.s., 1932, 74p.
- Dustan, Can. Hort. Fr. ed. 57: 27-28, 1934.
- bDustan, Ent. Soc. Ont. R. 65: 28-36, 1934.
- iFriend, Conn. Veg. Grow. Assoc. R. 19: 25-33, 1932; R. 20: 66-71, 1933.
- Friend, N.H. Hort. Soc. R. Meet. Manchester, Dec. 8, 1932: 65-79.
- Friend & Clark, Tex. C. 72: 53-56, '34.
- Fullaway, Pac. Sci. Cong. 4, P. 4: 593-594, 1930.
- iGilbert & Popenoe, USDA FB 1371 rev. 1934, 46p.
- Gorham, Ent. Soc. Ont. R. 65: 36-40, 1934.
- Grimes, Kans. Bien. R. 7: 103-105, '34.
- Guba & Whitcomb, Mass. Ext. Leaf 116, rev. 1933, 12p.
- Gui, Ohio Veg. Grow. Assoc. P. 19: 59-70, 1934.
- biHallock, J. Ec. Ent. 27: 476-481, 1934.
- iHerrick, N.Y. Dept. Agr. B. 240: 58-69, 1930.
- Hooker, USDA OES R. on Exp. Sta. f. 1931: 49, 1932.
- Knott, Vegetable Growing: 159-180, 1930.
- iLaHue, Purdue Agr. 28: 62-67, 1934.
- Lipman, N.J. R. 55: 44, 1934.
- iMaheux, Que. Min. de l'Agr. B. 118: 22-25, 1933.
- Mitchener, Manitoba Dept. Agr. C. 97, 1930, 8p.
- Mitchener, Manitoba Dept. Agr. & Immig. C. 97, rev. 1933, 8p.
- Mote & Thompson, Oreg. Ext. B. 459, 1933, 8p.; B. 463, 1933, 8p.
- Porter & White, USDA YB f. 1933: 364-368.
- iRose, Minn. Hort. 61: 63-64, 1933.
- Ross & Caesar, Ent. Soc. Ont. R. 62: 9-10, 1932.
- Ruggles & Stakman, Minn. Hort. 60: 82, 1932.
- Safro, Ohio Veg. Grow. Assoc. P. 15: 14-23, 1930.

†Vegetable insects *Cont'd*

- Shaeffer, Ind. Dept. Conserv. Div. Ent.
Pub. 103: 37-44, 1930.
Shropshire, Ill. St. Hort. Soc. Trans.
66: 376-382, 1932.
Skinner & Reed, Ind. R. 43: 42-44, '31.
Wallace, Ind. Dept. Conserv. Div. Ent.
R. f. 1931: 25-28, 1932.
Wallace, Ind. YB f. 1931: 821-830.
iWebster, Wash. Ext. B. 186, 1934, 8p.
iWilkinson, Conn. (Storrs) Ext. B. 196,
1933. 35p.
biWolcott, Ec. Ent. of West Indies: 579-
662, 1933.
- *Vegetable weevil, *see* *Listroderes obli-*
quus Klug.
- Vehilius forbesi*
inWilliams & Bell, Trans. Amer. Ent.
Soc. 57: 280-281, 1931.
- Velia* spp.
nDrake & Harris, P. Biol. Soc. Wash. 46:
45-48, 1933.
nHungerford, Ann. Ent. Soc. Amer. 23:
120-124, 1930.
- Veliidae*
Drake & Harris, P. Biol. Soc. Wash. 46:
45-53, 1933.
- Vella fallax haitiensis*
nSmith, Ann. Ent. Soc. Amer. 24: 815, '31.
- Velocia albiventris*
Painter, Ann. Ent. Soc. Amer. 23: 796,
1930.
- Veloidea*
inGould, J. Kans. Ent. Soc. 7: 57-60, '34.
- Velvet ants, *see* *Mutillidae*
- *Velvetbean caterpillar, *see* *Anticarsia*
gemmatilis (Hbn.)
- Verbena* bud moth, *see* *Endothema hebe-*
sana
- Vermileo*
Wheeler, Psyche 38: 165-169, 1931.
- Vermileo comstocki* (Sierra worm-lion)
biWheeler, Demons of the Dust: 167-
240, 1930.
- Vermileo tibialis*
Wheeler, Psyche 41: 236-237, 1934.
- Vermileo tibialis dowi*
nWheeler, Psyche 38: 167-169, 1931.
- Vermileo vermileo* (Mediterranean worm-
lion)
biWheeler, Demons of the Dust: 142-
166, 1930.

- Vermitigris fairchildi* (Worm-tigers of In-
donesia)
biWheeler, Demons of the Dust: 267-275,
1930.
- Veromessor, V. spp.
binWheeler & Creighton, Amer. Acad. Arts
& Sci. P. 69: 354-387, 1934.
- Veronicella leydigi* Simroth
bWilliams, Handb. Insects . . . Hawai-
ian Sugar Cane Fields: 337, 1931.
- Vespa* (Social wasps)
iStep, Bees, Wasps, Ants: 27-107, 1932.
- Vespa atropilosa*
bBequaert, Ent. Amer. n.s. 12: 99, 1931.
- Vespa auraria*
Krijgsman, Pac. Sci. Cong. 5, P. 5:
3358, 1934.
- Vespa consobrina*
iDow, B. Bost. Soc. Nat. Hist. 56: 12, '30.
- Vespa crabro* L. (Giant hornet)*
bBequaert, Ent. Amer. n.s. 12: 86-87,
1931.
Bromley, J. N.Y. Ent. Soc. 39: 123,
129, 1931.
Cresson, Ent. News 43: 215, 1932.
Garver, Nature Mag. 19: 138, 1932.
Herrick, Rur. N.Y. 90: 1022-1023, '31.
Huntington, Gard. Club Amer. B. ser.
5, 3: 109, 1933.
iStep, Bees, Wasps, Ants: 33-37, 1932.
- Vespa crabro* vs. *Vespula* (*Vespula*) *ger-*
manica
Presnall, Yosemite Nature Notes 9: 99,
1930.
- Vespa crabro germana*
Cory, J. Ec. Ent. 24: 50-52, 1931.
- Vespa germanica* *see* *Vespula germanica*
- Vespa maculata*, *see* *Vespula maculata*
- Vespa occidentalis*
Pemberton, Hawaiian Ent. Soc. P. 8:
243, 1933.
Van Zwaluwenburg, Hawaiian Ent.
Soc. P. 8: 390, 1934.
- Vespa sylvestris*
iStep, Bees, Wasps, Ants: 47-49, 1932.
- Vespa vulgaris* (Common wasp)
iStep, Bees, Wasps, Ants: 37-41, 1932.
- Vespidae*
biBequaert, Ent. Amer. n.s. 12: 71-127,
1931.
bHayward, Ent. News 41: 204-205,
222-226, 1930.

- biLindquist, J. Kans. Ent. Soc. 7: 51-55, 1934.
 Strand, Mont. B. 269: 15, 1932.
 Salt, Bklyn. Ent. Soc. B. 25: 226-228, 1930.
- Vespinæ**
 Bequaert, Bklyn. Ent. Soc. B. 25: 59-70, 1930.
- Vespoidea**
 nRoberts, J. Kans. Ent. Soc. 6: 91-98, 1933.
- Vespula adulterina**
 bBequaert, Ent. Amer. n.s. 12: 121-125, 1931.
- Vespula (Dolichovespula)**
 Hayward, Utah Acad. Sci. P. 9: 97-98, 1932.
- Vespula (Dolichovespula) arctica**
 biHayward, Utah Acad. Sci. P. 9: 98, '32.
- Vespula arenaria**
 bBequaert, Ent. Amer. n.s. 12: 114-116, 1931.
 biDuncan, Cal. St. Teach. Coll. Insects: 211-212, 1933.
 bHayward, Ent. News 41: 224, 1930.
 biHayward, Utah Acad. Sci. P. 9: 98, '32.
 iHungerford, Ent. News 41: 329-330, 1930.
- Vespula austriaca**
 bBequaert, Ent. Amer. n.s. 12: 105-108, 1931.
 biHayward, Utah Acad. Sci. P. 9: 94-95, 1932.
- Vespula consobrina**
 Hayward, Ent. News 41: 225, 1930.
- Vespula diabolica**
 Ent. News 43: 22, 1932.
- Vespula (Vespula) germanica (German wasp)**
 McCain, Cal. Cult. 76: 59, 71, 1931.
 O'Byrne, Ent. News 45: 101-102, 1934.
 iRau, Ent. News 41: 185-190, 1930.
 Rau, Bklyn. Ent. Soc. B. 26: 85-88, 1931.
 iStep, Bees, Wasps, Ants: 41-45, 1932.
- Vespula intermedia**
 iNeave, Can. Ent. 62: 83-84, 1930.
- Vespula maculata (L.) (Bald-faced hornet)***
 iAaron, Nature Mag. 19: 159, 1932.
 biBequaert, Ent. Amer. n.s. 12: 71-127, 1931.
 Denton, Bklyn. Ent. Soc. B. 26: 44, 1931.
 iDuncan & Pickwell, Nature Mag. 18: 225-228, 257, 1931.
 biHayward, Utah Acad. Sci. P. 9: 99, '32.
 iLoveland, Nature Mag. 20: 137, 1932.
 Rau, Bklyn. Ent. Soc. B. 29: 170-171, 1934.
- Vespula maculata—Face**
 iClarke, Sci. News Letter 20: 152, 1931.
- Vespula maculata—Nest—Population**
 biBetz, Quar. Rev. of Biol. 7: 197-209, 1932.
- Vespula maculata—Parasites**
 Cushman, P. Ent. Soc. Wash. 35: 10-11, 1933.
- Vespula maculifrons**
 bBequaert, Ent. Amer. n.s. 12: 93-95, 1931.
 biLindquist, J. Kans. Ent. Soc. 7: 51-55, 1934.
- Vespula marginata**
 Cockerell, Pan-Pac. Ent. 8: 161, 1932.
- Vespula norvegica**
 bBequaert, Ent. Amer. n.s. 12: 117-118, 1931.
- Vespula pennsylvanica**
 biBequaert, Ent. Amer. n.s. 12: 95-97, 1931.
 biHayward, Utah Acad. Sci. P. 9: 95, '32.
- Vespula rufa**
 bBequaert, Ent. Amer. n.s. 12: 97-105, 1931.
- Vespula (Vespula) rufa consobrina**
 biHayward, Utah Acad. Sci. P. 9: 96, '32.
- Vespula squamosa**
 biBequaert, Ent. Amer. n.s. 12: 108-111, 1931.
- Vespula sulphurea**
 bBequaert, Ent. Amer. n.s. 12: 111-112, 1931.
- Vespula (Dolichovespula) sylvestris**
 Bequaert, J. N.Y. Ent. Soc. 39: 137, 1931.
- Vespula vulgaris**
 biBequaert, Ent. Amer. n.s. 12: 90-93, 1931.
 biDuncan, Cal. St. Teach. Coll. Insects: 206-229, 1932.
- *Vetch bruchid, *see* *Bruchus brachialis*
 Vetch weevil, *see* *Bruchus brachialis*
 *Viceroy, *see* *Basilarchia archippus* (Cram.)

- Villa* spp.
 in Painter, Amer. Mus. Nov. 642: 8-9, 1933.
 Painter, Ann. Ent. Soc. Amer. 23: 801-802, 1930.
 Painter, J. Kans. Ent. Soc. 6: 7-16, '33.
- Vinegar fly*, see *Drosophila ampelophila*
- Vinius tryhana*
 iWilliams & Bell, Trans. Amer. Ent. Soc. 60: 280, 1934.
- **Violet aphid*, see *Micromyzus violae*
- **Violet sawfly*, see *Emphytina pallipes*
- Violet tip*, see *Polygonia interrogationis*
- Vipio chinensis*
 nCushman, PUSNM 79(14): 13-14, '32.
- Vipio moneilemae*
 nGahan, PUSNM 77(8): 3-5, 1931.
- Virginia creeper leaf-hopper*, see *Erythro-neura ziczac*
- Viridinsula deceptor*
 nCurran, Cal. Acad. Sci. P. ser. 4, 21: 166-167, 1934.
- Virus diseases of plants*, see *Plant diseases*
 —*Virus diseases*
- Vitula edmandsii*—Parasites
 J. Ec. Ent. 25: 946, 1932.
- Vitula serratilineella* (Dried fruit moth)*
 Donohoe & Barnes, J. Ec. Ent. 27: 1071-1072, 1934.
 iSimmons, Reed & McGregor, USDA C 157: 38-39, 1931.
- Viviania* spp.
 nReinhard, Bklyn. Ent. Soc. B. 25: 102-107, 1930.
- Volcanic skipper*, see *Catia otho egeremet*
- Volucella obesa* (Fabr.)
 biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 284-286, '31.
- Volucella pusilla*
 Bryan, Hawaiian Ent. Soc. P. 8: 3, '32.
 Ehrhorn, Hawaiian Ent. Soc. P. 8: 2, 1932.
 Illingworth, Hawaiian Ent. Soc. P. 8: 2, 1932.
 Swezey, Hawaiian Ent. Soc. P. 7: 393, 1931; P. 8, 28, 1932.
- Volucella* spp.
 nCurran, Amer. Mus. Nov. 413: 12-23, 1930; Nov. 416: 3-5, 1930.
 nHull, Trans. Amer. Ent. Soc. 56: 148, 1930.
- Volucellinae*
 Curran, Amer. Mus. Nov. 413: 1930, 23p.
- Volucellosia*
 nCurran, Amer. Mus. Nov. 413: 5-12, 1930.
- Vorates steinbachi*
 in Bell, J. N.Y. Ent. Soc. 38: 458-459, '30.
- Vrilletta laurentina*
 Knull, Ent. News 45: 209, 1934.
- **W-marked cutworm*, see *Agrotis unicolor*
- Walchia*
 Ewing, PUSNM 80(8): 10-11, 1931.
- **Walkingstick*, see *Diapheromera femorata*
- Wallengrenia premnas*
 Williams & Bell, Trans. Amer. Ent. Soc. 60: 279-280, 1934.
- **Walnut aphid*, see *Chromaphis juglandicola* (Kltb.)
- **Walnut blister mite*, see *Eriophyes tristriatus erineus* Nal.
- Walnut case bearer*, see *Acrobasis juglandis* L. & B.
- **Walnut caterpillar*, see *Datana integerima* G. & R.
- **Walnut husk fly*, see *Rhagoletis completa*
- Walnut insects*
 bBarrett, Cal. Univ. Pub. Ent. 5(15): 275-309, 1932.
 iBoyce, Diamond Walnut News, 12(3): 14-16, 1930; 14(3): 15-17, 1932; 15(2): 3-4, 1933.
 iBraucher, Diamond Walnut News 14(4): 11, 1932; 16(2): 2, 1934.
 iEssig & Hoskins, Cal. Ext. C. 87: 86-88, 1934.
 Kimball, Diamond Walnut News, 13(1): 3, 1931; 15(4): 5, 1933.
 McWhorter et al. Oreg. Ext. B. 470: 14-15, 1934.
 iMusgrave, Purdue Agr. 27: 78, 1933.
 Ryan, Diamond Walnut News 15(2): 8-9, 1933.
 iSmith, Diamond Walnut News 12(2): 5-6, 1930.
 Thompson, Oreg. St. Hort. Soc. R. 22: 116-118, 1930.
 Wright, Diamond Walnut News 12(2): 7-8, 1930; 12(3): 7, 1930; 15(2): 9, 1933.
 Oreg. C. 108: 35-36, 1934.

- *Walnut scale, *see* *Aspidiotus juglans-regiae* Comst.
- Wanderer, *see* *Peniseca tarquinius*
- Warble flies, *see* *Hypoderma* spp.
- Washing residue from apples *see* Spray residue removal—Washing apples
- Wasps**
- Baldwin, Guide to Nature 26: 57, 1934.
- Bentley, Tenn. St. Hort. Soc. P. 25: 92, 1930.
- Bequaert, J. N.Y. Ent. Soc. 39: 131-137, 1931.
- Dow, Psyche 37: 181-182, 1930.
- iFernald, Ent. News 43: 124-128, 1932.
- iGibson, Can. Dept. Agr. B. n.s. 99, rev.: 61, 1934.
- Murphy, Gard. Club. Amer. B. Ser. 4(12): 97, 1930.
- Rau, Ent. News 42: 199-200, 1931.
- iWeed, Insect Ways; 140-166, 1930.
- Wasps—Nests**
- iDow, B. Bost. Soc. Nat. Hist. 56: 11-16, 1930.
- Williams, Hawaiian Acad. Sci. P. 8: 20, 1933.
- Wasps—Parasites**
- Dow, Psyche, 39: 8-19, 1932.
- Wasps—Seed-infesting**
- biDozier, P.R. Dept. Agr. J. 16: 103-112, 1932.
- Wasps—Social**
- iHowes, Nat. Hist. 33(1): 95-102, 1933.
- Wasps—Solitary**
- bDow, Bklyn. Ent. Soc. B. 25: 98-101, 1930.
- iRau, Can. Ent. 66: 259-261, 1934.
- Water flea, *see* *Moina macrocopa*
- Water mites, *see* *Hydracarina*
- Water spiders, *see* *Dolomedes*
- Water-striders, *see* *Gerridae*
- *Watercress leaf beetle, *see* *Phaedon aeruginosus* Suffr.
- *Watercress sowbug, *see* *Mancasellus brachyurus* Harger
- Watermelon insects**
- Goff, Fla. R. 45: 78-79, 1931.
- Goff, Fla. R. f. 1933: 80; R. f. 1934: 54.
- Ross, Ariz. Ext. Proj. C. 14: 13, 1933.
- Watson, Fla. Grow. 38(5): 35-36, 1930.
- Watson, Fla. R. f. 1930: 73.
- Wilson, Fla. R. f. 1932: 88-89.
- Wattle bagworm, *see* *Acanthopsyche junodi*
- *Wax moth, *see* *Galleria mellonella* (L.)
- †Weather and insects
- Hinds, Sugar B. 12(19): 5-6, 1934.
- iHuckett, N.Y. (Gen.) C. 128: 2-3, '32.
- Huntington, Gard. Club Amer. B. Ser. 5(9): 117-118, 1934.
- Knoll, For. Leaves 23: 15-16, 1931.
- iLoftin & Christenson, Internat. Soc. Sugar Cane Tech. Cong. 4, B. 115 [P. Pt. 2]: 5-6, 1932.
- iMathers, B.C. Ent. Soc. P. 31: 22-27, 1934.
- Rogers, Wis. Cranb. Grow. Assoc. R. 48: 13, 1934.
- iSwenk, Neb. St. Hort. Soc. P. 61: 28-33, 1930.
- iSwenk, Neb. St. Bd. Agr. R. f. 1932: 583-587.
- bWoodbury, Nat. Cannery Assoc. Bur. Raw Prod. Res. Mem. Com. Sci. Res. Jan. 1933: 112.
- Weather and insects—Drought**
- Flint, J. Ec. Ent. 24: 653-656, 1931.
- Houser, J. Ec. Ent. 24: 657-658, 1931.
- Pierstorff & Parks, Ohio Pl. Dis. & Ins. Notes 1(11): 1-4, 1930.
- Richardson, Iowa St. Hort. Soc. Trans. 69: 137-138, 1934.
- Weather and insects—Hot dry summer**
- Guyton, Nat. Nurserym. 38(22): 9: '30.
- Weather and insects—Rain**
- Allard, Can. Ent. 63: 223-224, 1931.
- iFord, Dak. Farm. 52: 78, 1932.
- Hendrickson, Iowa Acad. Sci. P. 40: 238-239, 1934.
- biManson, Que. Soc. Prot. Pl. R. 25/26: 101-106, 1934.
- Weaver ants**
- Guenther, tr. by Miall, Naturalist in Brazil: 321, 1931.
- *Webbing clothes moth, *see* *Tineola biselliella* (Hum.)
- Webworms**
- Lutkens, S.C. Wkly. News Notes 19: 2, 1930.
- Mumford, Ill. R. 45: 144, 1932.
- Skinner & Coleman, Ind. Ent. R. 21: 46, 1932.
- Goldford 7(9): 10, 1933.
- Lawn Care 4(4): 1-2, 1931.

Weeds as insect hosts

Lockwood, Cal. Agr. Mo. B. 22: 279-282, 1933.

Weevils

iBack, USDA FB 1275, 1930, 30p.

iBeard, Amer. Boys' Bk. Bugs: 253-255, 1932.

bTanner, Utah Acad. Sci. P. 11: 285-288, 1934.

iTing, Cal. Agr. Mo. B. 22: 161-165, '33. Neb. News & Feat. Serv. 20(3): 1, 1932.

Weevils—Fumigation

Betten, N.Y. (C.) R. 45: 121, 1932.

Watson, Fla. Grow. 39(11): 13, 1931; 40(9): 27, 1932.

Weevils on strawberry—Key

Wilcox, Mote & Childs, Oreg. B. 330: 19-22, 1934.

West Indian blister mite, *see* Eriophyes gossypii

*West Indian cane weevil, *see* Metamasius hemipterus (L.)

West Indian "fly", *see* Saccharosydne saccharivora

*West Indian fruitfly, *see* Anastrepha fraterculus (Wied.)

West Indian sugar cane leaf-hopper, *see* Saccharosydne saccharivora

West Indian sugar cane mite, *see* Tarsone-mus spinipes

*West Indian sweetpotato weevil, *see* Euscepes batatae (Wthr.)

*Western balsam bark beetle, *see* Dryocoetes confusus Swaine

*Western cedar borer, *see* Trachykele blondeli Marseul

*Western chicken flea, *see* Ceratophyllus niger Fox

Western corn root-worm, *see* Diabrotica longicornis

Western dog tick, *see* Dermacentor occidentalis

Western flower thrips, *see* Frankliniella californica

*Western grape rootworm, *see* Adoxus obscurus (L.)

Western hemlock sawfly, *see* Neodiprion tsugae

Western leaf-footed plant bug, *see* Leptoglossus zonatus

Western peach and prune root borer, *see* Conopia opalescens

*Western peach borer, *see* Conopia opalescens (Hy. Edw.)

*Western pine beetle, *see* Dendroctonus brevicornis Lec.

*Western potato flea beetle, *see* Epitrix subcrinita Lec.

*Western spotted cucumber beetle, *see* Diabrotica soror Lec.

Western strawberry root-weevil, *see* Dyslobus ursinus

*Western striped cucumber beetle, *see* Diabrotica trivittata (Mann.)

Western subterranean termite, *see* Reticulitermes hesperus.

*Western tent caterpillar, *see* Malacosoma pluvialis (Dyar)

*Western tree hole mosquito, *see* Aedes varipalpus (Coq.)

*Western tussock moth, *see* Hemerocampa vetusta (Bdv.)

Western twelve-spotted cucumber beetle, *see* Diabrotica soror

Western willow tingid, *see* Corythucha salicata

Wheat insects

iBriggs, Northwest. Miller 180 Sec. 2: 48-49, 1934.

Call, Kans. Bien. R. 5, 105-106, 1930.

Drake, Iowa R. f. 1932: 56-57.

Drake, Iowa R. f. 1934: 95.

iFlint & Larrimer, USDA FB 1498 rev. 1934, 17p.

Larrimer, USDA YB f. 1933: 169-170.

biMex. Agr. & Fomento. Principales

Plagas: 69-72, 1930.

Parks, Ohio Bi-Mo. B. 19(170): 171-174, 1934.

iSanderson, Ins. Pests Farm ed. 3: 153-158: 1931.

bSeamans, Pac. Sci. Cong. 5, P. 5: 3473-3481, 1934.

bSmith, Ann. Ent. Soc. Amer. 26: 513, 1933.

*Wheat jointworm, *see* Harmolita tritici

*Wheat-stem maggot, *see* Meromyza americana Fitch

*Wheat-stem sawfly, *see* Cephus cinctus

*Wheat straw worm, *see* Harmolita grandis (Riley)

*Wheat wireworm, *see* Agriotes mancus

*Wheathead armyworm, *see* Neleucania albilinea (Hbn.)

- *Wheel bug, *see* *Arilus cristatus* (L.)
 White admiral, *see* *Basilarchia arthemis*
 *White apple leafhopper, *see* *Typhlocyba pomaria* McAtee
 White-banded salt marsh mosquito, *see* *Aedes sollicitans*
 White birch leaf mining sawfly, *see* *Phyllostoma nemorata*
 White cotton root aphid, *see* *Trifidaphis phaseoli*
 White-faced hornet, *see* *Vespula maculata*
 White fly of sugar beet, *see* *Eutettix tenella*
 White fly of tomato, *see* *Trialeurodes vaporariorum*
 White fly of Utah, *see* *Eutettix tenella*
 White grubs, *see* *Phyllophaga* spp.
 *White-lined sphinx, *see* *Sphinx lineata* F.
 *White-marked spider beetle, *see* *Ptinus fur* L.
 *White-marked tussock moth, *see* *Hemerocampa leucostigma* (S. & A.)
 White mould, *see* *Eriophyes cladophthirus*
 *White peach scale, *see* *Aulacaspis pentagona* (Targ.)
 White pine aphid, *see* *Adelges pinicorticis*
 White pine blister rust
 Britton, Conn. C. 72: 60-61, 1930; C. 73: 7, 1931
 Chambers, Wis. Dept. Agr. B. 141: 89, 118-120, 1933.
 Dickson, For. Chron. 9(4): 60-65, 1933.
 Fracker & Sheals, J. Ec. Ent. 26: 641-648, 1933.
 iRex. N.J. Dept. Agr. C. 170, 1930, 21p.
 Weiss, N.J. St. Dept. Agr. R. 19: 135, 1934.
 Wyckoff, Cal. Agr. Mo. B. 23: 296-298, 1934.
 White pine blister rust—Quarantine
 iBritton, Conn. C. 85: 42, 1932.
 Nat. Nurserym. 40(20): 3-4, 1932.
 White pine scale, *see* *Chionaspis pinifoliae*
 *White pine weevil, *see* *Pissodes strobi*
 White rat insects
 biSkidmore, Can. Ent. 66: 110-115, 1934.
 White snail, *see* *Helix pisana*
 White spotted cutworm, *see* *Homohadena badistriga*
 *White-spotted sawyer, *see* *Monochamus scutellatus* (Say)
 White triangle leaf-roller, *see* *Cacoecia persicana*
 White wax scale, *see* *Ceroplastes ceriferus*
 White wax scale of China, *see* *Ericerus pela*
 Wiedemanniomyia
 nTownsend, J. N.Y. Ent. Soc. 40: 469-470, 1932.
 Wild cotton borer, *see* *Rhodoneura terminalis*
 Wild cotton insects
 bRainwater, J. Ec. Ent. 27: 756-761, 1934.
 Wild life—Insects
 Hutchison, Cal. R. f. 1931-1932: 65-66, 1933.
 Willemia denisi
 inMills, Iowa St. Col. J. Sci. 6: 263-264, 1932.
 Willemia intermedia, similis
 inMills, Collembola of Iowa: 17-18, 1934.
 Williamsonia fletcheri
 Gloyd, Ent. News 43: 190, 1932.
 Willow flea weevil, *see* *Orchestes rufipes*
 Willow insects
 Herrick, Rur. N.Y. 90: 755, 1931.
 bNash, J. Ec. Ent. 27: 336-339, 1934.
 Willow leaf beetle, *see* *Galerucella decora*
 *Willow sawfly, *see* *Pteronidea ventralis*
 Willow weevil, *see* *Stamoderes uniformis*
 Willowsiella, W. dispar
 nWheeler, Cal. Acad. Sci. P. Ser. 4: 21, 174-177, 1934.
 Window fly, *see* *Scenopinus fenestralis*
 Wings of insects
 iBradley, Guide to Study of Wings of Insects, 1931, 41p.
 Clark, Pop. Sci. Month. 117(5): 52, '30.
 biHarnly, J. Exp. Zool. 56: 363-368, '30
 Hersh & Ward, J. Exp. Zool. 61: 223-244, 1932.
 Martynov, Psyche 37: 245-280, 1930.
 Snodgrass, J. Wash. Acad. Sci. 20: 114-115, 1930.
 bSpieth, Ent. News 43: 103-105, 1932.
 Stanley, Phys. Zool. 4: 394-408, 1931.
 iStep, Bees, Wasps, Ants: 11-18, 1932.
 Winter insects
 iAaron, Nature Mag. 18: 365-369, 1931.
 Browne, Cal. Cult. 76: 3, 7, 1931.
 Watson, Fla. Ent. 15: 71-73, 1932.
 *Winter tick, *see* *Dermacentor albipictus*
 Winthemia spp.
 inReinhard, PUSNM 79(20): 54p.

†Wireworms

- Beal, N.Y. (C.) Ext. B. 212: 30, 1932.
 Britton, Conn. B. 344: 170, 1933.
 Burdette, N.J. R. 52: 227-228, 1931.
 iCaesar, Ont. Dept. Agr. B. 359: 12-16, 1931.
 Compton, Ill. St. Nat. Hist. Surv. Ent. Ser. C. 12: 27-29, 1930.
 Cooley, Mont. B. 238: 9-10, 1930.
 Crosby & Chupp, N.Y. (C.) Ext. B. 206 rev.: 73, 1933.
 iDavis, Ind. Ext. B. 186: 14-15, 1932.
 Desgranges, Big "Y" B. 10(5): 7, 1930.
 iDustan, Can. Dept. Agr. Ent. B. 32: 19-20, 1932.
 Gibson, Can. Hort. Fr. & Truck ed. 53: 48-49, 1930.
 iGilbert & Popenoe, USDA FB 1371 rev.: 5, 1930.
 iGui, Ohio B. 516: 47-48, 1933.
 Hanson, W. Wash. Hort. Assoc. P. 25: 24, 1934.
 Hawkins, Maine B. 360: 189-190, 1931; B. 363: 266-268, 1932; B. 369: 553-555, 1933; B. 377: 401-405, '34.
 Headlee, N.J. R. 51: 175-176, 1930.
 Iddings, Ida. B. 179: 29, 1931.
 iLacroix, Conn. B. 326: 429-430, 1931.
 Lane, USDA FB 1657, 1931, 8p.
 Lane, Ida. St. Hort. Assoc. Conv. 38: 66-73, 1933.
 Lane, Wash. Farm. 69: 199, 202, 228, 238, 1934.
 Lipman, N.J. R. 55: 44, 1934.
 biLockwood, Cal. Agr. Mo. B. 18: 768-769, 1929; B. 22: 331, 1933.
 McDaniel, Mich. Sp. B. 214: 95-96, 1931.
 biMail, J. Agr. Res. 41: 571-592, 1930.
 Marlatt, USDA Ent. R. f. 1930: 25-26; R. f. 1931: 33-35; R. f. 1933: 18.
 Milord, Rev. de Agr. Cuba 12(4): 36, 1930.
 iMunro & Riddle, N.Dak. C. 42 rev.: 61-63, 1933.
 iPettit, Mich. Ext. B. 117: 8-9, 1931.
 iPierstorff & Parks, Ohio Ext. Pl. Dis. & Ins. Notes 1(2): 1-2, 1930.
 Sanderson, Ins. Pests Farm ed. 3: 75-77, 1931.
 iStrayer, Iowa Agr. 33: 36-37, 1932.

- Strickland, Can. Nat. Res. Coun. R. 15: 116-117, 1932.
 iStrickland, Alberta Ext. B. 24: 36-46, 1933.
 Strong, USDA Ent. R. f. 1934: 10.
 Thomas, Penn. St. Col. B. 258: 37, '30.
 biThomas, Penn. B. 259, 1930, 52p.; B. 308: 22, 1934.
 Twinn, Ent. Soc. Ont. R. 64: 65, 1933; R. 65: 114, 1934.
 iWalton, USDA FB 835 rev.: 18-20, '31.
 Watson, Fla. B. 232: 53-55, 1931.
 iWebster, Wash. Ext. B. 186: 7-8, 1934.
 Wicks, Cal. Dept. Agr. Sp. Pub. 115: 158, 1932.
 Wolcott, Ec. Ent. of West Indies: 159-161, 1933.
Wireworms — Baits — Atrahents — Aromatic compounds
 iLehman, J. Ec. Ent. 25: 949-958, 1932.
Wireworms—Carbon disulphide
 biJones, J. Ec. Ent. 26: 887-892, 1933.
 iLane & Gibson, J. Ec. Ent. 25: 958-967, 1932.
 Marlatt, USDA Ent. R. f. 1932: 14.
Wireworms—Fumigation
 biLehman, J. Ec. Ent. 26: 1042-1051, 1933.
Wireworms—Gladiolus
 Prouten, Flow. Grow. 18: 478-479, '31.
 Simons, Flow. Grow. 19(9): 404, 1932.
Wireworms—Golf greens
 iPettit, Mich. Ext. B. 125: 7, 1932.
 Golfdom 5(9): 19-20, 1931.
Wireworms—Lima beans
 Hodges, Pac. Rur. Press 119: 567, 1930.
Wireworms—Loss from
 Vigor, Sask. Prov. Dept. Agr. R. 24: 18, 1929.
Wireworms—PH incidence
 bMail, J. Ec. Ent. 25: 836-840, 1932.
Wireworms—Potatoes
 Bailey, Vt. Dept. Agr. B. 42: 11, 1934.
 [Betten] N.Y. (C.) R. 45: 117-118, '32.
 iBourne, Mass. Ext. Leaf. 20 rev.: 24, 1933.
 [Ford et al], Col. Ext. B. 45: 16-18, '34.
 Gui, Ohio Veg. Grow. Assoc. P. 18: 66-72, 1933.
 Hanson, W. Wash. Hort. Assoc. P. 25: 24, 1934.
 Haseman, Mo. Ext. C. 257: 4, '30.

- Hawkins, Maine B. 377: 354-356, 1934.
 MacLeod, N.Y. (C.), R. 44 Pt. 2: 49-50, 1931.
 MacLeod, Amer. Potato J. 11: 61-65, 1934.
 Rawlins, J. Ec. Ent. 25: 649-651, 1932.
 Ward et al, Ind. Ext. B. 89(4th rev. ed.): 21, 1933.
- Wireworms—Pyrethrum**
 Headlee, J. Ec. Ent. 23: 251-259, 1930.
 Headlee, N.J. Dept. Ent. R. f. 1929: 193-197, 1930.
- Wireworms—Soil sterilization**
 iShirck, J. Ec. Ent. 23: 991-994, 1930.
 bStone & Campbell, J. Ec. Ent. 26: 237-243, 1933.
- Wireworms—Sugar cane**
 Holloway, Facts about Sugar 27: 354, 1932.
 Loftin, Assoc. Tecn. Azucar. Cuba P. 4: 56-57, 1930.
- Wireworms—Sulphur**
 bCampbell & Stone, J. Ec. Ent. 25: 967-970, 1932.
- Wireworms—Summer fallow**
 bKing & Glen, Sci. Agr. 13: 406, 646-652, 1933.
- Wohlfahrtia vigil**
 bFord, J. Parasit. 19: 106-111, 1932.
 iKingscote, Ont. Vet. Coll. R. f. 1930: 38-39, 1931.
 biMatheson, Med. Ent.: 376-378, 1932.
- Wohlfahrtia vigil and Myiasis**
 Gertson et al, J. Amer. Med. Assoc. 100: 487-488, 1933.
 iKingscote, Ont. Vet. Coll. R. f. 1930: 38-39, 1931.
 biWalker, Can. Pub. Health J. 22: 504-507, 1931.
- Wolf moth, see Tinea granella**
Wolf spiders, see Lycosidae
- Wood-boring insects**
 iEades, Can. Dept. Int. For. Serv. B. 80: 95-98, 1932.
 Foster, N.H. For. Comm. Bien. R. f. 1930: 119-123.
 iHouser, Ohio B. 478: 41-46, 1931.
 Hunt, Engin. News-Rec. 111: 327, '33.
 biMcDaniel, Mich. Sp. B. 238, 1933, 37p.
 Stansel & Wyche, Tex. B. 466: 21, '32.
 bThompson, J. Ec. Ent. 25: 347-351, 1932.
- Turner, Engin. News-Rec. 111: 159-160, 178, 1933.
 iVan Dyke, Kofoid, Termites & Termite Control: 323-335, 1934.
 Violette, Maine For. Com. R. 19: 67-68, 1932.
 Wygant, Purdue Agr. 25: 126-127, '31.
- Wood preservation**
 iBrown, Engin. News-Rec. 111: 223-224, 1933.
 i[Davis], Amer. Lumberm. 58(2922): 46-47, 1931.
 Finlayson, Can. Dept. Int. Dir. For. R. f. 1930/1931: 12, 1932.
 Greaves, Can. Dept. Int. For. Serv. C. 36, 1933.
 Houser, Ohio B. 478: 44-45, 1931.
 biHunt & Snyder, Amer. Wood Preserv. Assoc. P. 26: 318-338, 1930; P. 27: 279-285, 1931; P. 28: 282-300, 1932; P. 29: 398-400, 1933; P. 30: 398-410, 1934.
 iMorris, Amer. Lumberm. 60(2993): 26-27, 1933.
 iAmer. Lumberm. 58(2926): 26-27, 1931; 59(2985): 14, 1932; 61(3036): 47, 1934.
- Woodland pool mosquito, see Aedes canadensis**
- Woodlice**
 bBlake, Bost. Soc. Nat. Hist. Occ. Pap. 5: 349-355, 1931.
- Wood rat insects**
 bDavis, So. Cal. Acad. Sci. B. 33: 12-24, 1934.
- Wool maggot, see Phormia regina**
***Woolly alder aphid, see Prociphilus tessellatus (Fitch)**
***Woolly apple aphid, see Eriosoma langigerum (Hausm.)**
***Woolly elm aphid, see Eriosoma americanum Riley**
- Woolly maple leaf scale, see Phenacoccus acericola**
***Woolly whitefly, see Aleurothrixus howardi (Quaint.)**
- World's grain exhibition, Regina, 1933—Insect pests**
 McLaine, Ent. Soc. Ont. R. 65: 90-93, 1934.

- Wyeomyia**
 biMatheson, Mos. of North Amer.: 205-206, 1929.
- Wyeomyia smithii** (Coq.) (Pitcherplant mosquito)*
 Johnson, B. Bost. Soc. Nat. Hist. 55: 17, 1930.
- Wyeomyia vanduzeei**
 biGerry, Ann. Ent. Soc. Amer. 25: 37, 1932.
- X-ray**
 biFricke, Biol. Photo. Assoc. J. 1: 90-91, 1932.
- X-ray—Detection of insects by**
 iFenton & Waite, J. Agr. Res. 45: 347-348, 1932.
 iMaloy & Wilsey, Amer. For. 36: 79-82, 1930.
- X-ray—Effect on insects**
 biBodine & Evans, Physiol. Zool. 7: 550-555, 1934.
 Bostian, Penn. Acad. Sci. P. 3: 32-34, 1929.
 Dunning, Genetics 16: 505-531, 1931.
 biEvans, Physiol. Zool. 7: 556-571, 1934.
 biHey, J. Exp. Zool. 64(1): 209-229, '32.
 iHussey et al, J. Gen. Physiol. 16: 207-220, 1932.
 McGrady, Penn. Acad. Sci. P. 4: 88-91, 1930.
 bMoore, Biol. B. 62: 294-305, 1932.
 Wolters, Hawaiian Pl. Rec. 38: 269, 1934.
- Xanthaciura, X. connexionis**
 biBenjamin, USDA TB 401: 43-46, 1934.
- Xanthampulex divaricatus, intrusus**
 nBanks, Amer. Acad. Arts & Sci. P. 69(1): 115-117, 1934.
- Xanthandrus—Key—Females**
 Curran, BAMNH 61: 66-68, 1931.
- Xanthandrus mexicanus**
 nCurran, Amer. Mus. Nov. 416: 9-10, 1930.
- Xanthina nigromaculata, subcurva**
 inVan Duzee, BAMNH 61: 179-180, '31.
- Xanthippus corallipes**
 Hebard, Ent. News 44: 234, 1933.
- Xanthogramma**
 Fluke, Wis. Acad. Sci. Trans. 26: 288-289, 1931.
- Xanthogramma aenea, emarginata**
 Fluke, Wis. Acad. Sci. Trans. 26: 291-297, 1931.
- Xantholarvaevora, X. formosa**
 nTownsend, J. N.Y. Ent. Soc. 80: 465, 1932.
- Xantholobus spp.**
 nBall, P. Biol. Soc. Wash. 45: 80-82, '32.
 Ball, P. Biol. Soc. Wash. 46: 26, 1933.
- Xanthonia pinicola**
 nSchaeffer, J. N.Y. Ent. Soc. 41: 471-472, 1933.
- Xanthopan morgani praedicta**
 iWarner, Amer. Orchid Soc. B. 3: 42-43, 1934.
- Xanthopetia**
 nTownsend, J. N.Y. Ent. Soc. 40: 452-453, 1932.
- Xanthopimpla spp.**
 Cartwright, USDA C. 289: 9, 1933.
- Xanthopimpla stemmator**
 bClark, USDA TB 455: 24-25, 1934.
- Xanthoteras mediocre**
 nWeld, P. Ent. Soc. Wash. 32: 30-31, 1930.
- Xanthotype urticaria**
 iMcDunnough, Can. Ent. 65: 125-126, 1933.
- Xanthoxylum trirhabda brevicollis** (Prickly-ash beetle)
 Amer. Agr. Chem. Co. Rev. de Agr. Cuba 13(6): 32, 1931.
 Watson & Berger, Fla. Ext. B. 67: 122, 1932.
- Xenocoenosia devia**
 nCurran, Cal. Acad. Sci. P. ser. 4, 21: 164, 1934.
- Xenoheptaulacus, X. carinator**
 inHinton, Ann. Ent. Soc. Amer. 27: 613-615, 1934.
- Xenolechia ontariensis, querciphaga**
 inKeifer, Cal. Agr. Mo. B. 22: 358-359, 1933.
- Xenopsylla astia and Typhus fever**
 bWorkman, U.S. Pub. Health R. 48: 795-797, 1933.
- Xenopsylla brasiliensis**
 Riley & Johannsen, Med. Ent.: 390, 1932.

Xenopsylla cheopis (Rothsch.) (Oriental rat flea)*

Carnes, U.S. Pub. Health R. 46: 2558-2562, 1931.

biCarrión, U.S. Pub. Health R. 47: 193-201, 1932.

Cecil, Text-Book Med. ed. 3: 514, 1934.

bDyer et al, U.S. Pub. Health R. 47: 131-133, 987-994, 1329-1331, 1932.

iEskey, U.S. Pub. Health R. 45: 2089-2092, 2097-2115, 2178-2186, 1930; R. 47: 2197-2200, 1932.

bMatheson, Med. Ent.: 422, 1932.

Rumreich, Dyer & Bulger, U.S. Pub. Health R. 46: 479, 1931.

Xenopsylla cheopis and disease

Williams, Soap 8(3): 99-101, 111, 1932.

Xenopsylla cheopis and Plague

iGershenfeld, Hygeia 8: 1026, 1930.

Lillingston, Hygeia 12: 1092-1093, '34.

iRiley & Johannsen, Med. Ent.: 409-410, 1932.

Xenopsylla cheopis and Typhus fever

biCedar et al, U.S. Pub. Health R. 46: 3103-3106, 1931.

biDove & Shelmire, J. Parasit. 18: 163, 1932.

biDyer et al, U.S. Pub. Health R. 46: 334-338, 1869-1870, 2415-2416, 2481-2499, 1931; R. 47: 131-133, 987-944, 1329-1331, 1932.

Dyer et al, J. Infect. Dis. 51(1): 142, 1932.

bHoffman, Assoc. Med. P. R. B. 24: 653-655, 1932.

Kemp, J. Amer. Med. Assoc. 97: 775-777, 1931.

Mooser & Castaneda, J. Exp. Med. 55: 310-313, 1932.

Xenopsylla hawaiiensis

Illingworth, Hawaiian Ent. Soc. P. 8: 361, 1934.

Xenorchestinae

nPierce, PUSNM 77(17): 32, 1930.

Xenorhipis brendeli

Cooper, Bklyn. Ent. Soc. B. 28: 115, 1933.

Xenylla alba

inFolsom, Hawaiian Ent. Soc. P. 8: 54, 1932.

Xenylla humicola

Davis, P. Ent. Soc. Wash. 36: 269, '34.

Xenylla sensilis

inFolsom, Hawaiian Ent. Soc. P. 8: 54, 1932.

Xenylla welchi—Mushrooms

Davis, P. Ent. Soc. Wash. 36: 269, '34.

Xerophloea spp.

Lawson, Pan-Pac. Ent. 7: 159-169, '31.

Xestobium rufo-villosum

Pearson, Amer. Wood-Preserv. Assoc. P. 30: 37-38, 1934.

Xestocephalus spp.

inPeters, J. Kans. Ent. Soc. 6: 73-80, '30.

Xiphidia

nGoding, J. N.Y. Ent. Soc. 38: 92, 1930.

Xiphidiopsis lita

Swezey, Hawaiian Ent. Soc. P. 7: 356, 1931.

Xiphormyrnex costatus

nWheeler, Cal. Acad. Sci. P. ser. 4, 21: 177-178, 1934.

Xiphoele compressiventris

Muesebeck, PUSNM 79(16): 12-13, 1931.

Xiruthrus domingoensis

nFisher, PUSNM 80(2): 1-3, 1932.

Xosablatta

nRehn, P. Acad. Nat. Sci. Phila. 83: 374-375, 1931.

Xyela—Parasites

Cushman, P. Ent. Soc. Wash. 36: 262, 1934.

Xyela spp.

Bridwell, P. Ent. Soc. Wash. 36: 262, 1934.

Xyelecia, X. nearctica

nRoss, Ann. Ent. Soc. Amer. 25: 159-161, 1932.

Xyelidae

iRoss, Ann. Ent. Soc. Amer. 25: 153-169, 1932.

Xyleborinus librocetri

nSwaine, Can. Ent. 66: 205, 1934.

Xyleborinus sp. and temperature

iHopping & Jenkins, Can. Dept. Int. For. Serv. C. 38, 1933, 14p.

Xyleborinus tsugae

nSwaine, Can. Ent. 66: 204-205, 1934.

Xyleborus dispar

Bentley, Tenn. St. Hort. Soc. P. 25: 92, 1930.

Xyleborus fitchi

Knull, Ent. News 45: 212, 1934.

- Xyleborus germanus**
 Felt, J. Ec. Ent. 25: 418, 1932.
 Felt, Science n.s. 75(1955 sup.): 8, 1932.
 Felt, Sci. News Letter 21: 393, 1932.
- Xylina antennata**, *see* **Graptolitha antennata**
- Xylina laticinaria**, *see* **Graptolitha laticinaria**
- Xylina nupera**
 bCrumb, Bklyn. Ent. Soc. B. 27: 96, '32.
- Xylina spp.**, *see* **Graptolitha spp.**
- Xylobiops basillare**
 Moznette et al, USDA FB 1654: 47-48, 1931.
- Xylococcus betulae**
 Essig, Pan-Pac. Ent. 10: 44, 1934.
- Xylocopa**
 Step, Bees, Wasp, Ants: 135-149, 1932.
- Xylocopa varipuncta**
 Ehrhorn, Hawaiian Ent. Soc. P. 7: 379, 1931.
 Pemberton, Hawaiian Ent. Soc. P. 8: 510, 1934.
 biWilliams, Handb. Insects . . . Hawaiian Sugar Cane Fields: 231-232, '31.
- Xylocopa virginica** (Carpenter bee)*
 Richmond, Col. B. 391: 5, 1932.
- Xylocopa virginica and Anthrax simpson**
 Englehardt, Bklyn. Ent. Soc. B. 29: 197, 1934.
- Xylomyges sunia**
 Wolcott, La Hacienda 27: 316, 1932.
- Xylomyia pallipes**
 bLeonard, Amer. Ent. Soc. Mem. 7: 43-44, 1930.
- Xylophanes—Key**
 Forbes, N.Y. Acad. Sci. Sci. Surv. P.R. 12: 67, 1930.
- Xylophanes kaempferi, katharinae**
 nClark, New Eng. Zool. Club P. 12: 81-82, 1931.
- Xyloribes pembertonii**
 inJacot, Bernice P. Bishop Mus. B. 121: 64-66, 1934.
- Xyloryctes satyrus**
 iHerrick, Rur. N.Y. 89: 1007-1008, '30.
 Latham, Bklyn. Ent. Soc. B. 28: 202, 1933.
 iSim, USDA C. 334: 9-10, 1934.
- Xylotrechus—Key**
 biHopping, Ann. Ent. Soc. Amer. 25: 533-546, 1932.
- Xylotrechus abietis**
 biHopping, Ann. Ent. Soc. Amer. 25: 539, 1932.
- Xylotrechus aceris** Fisher (Gall-making maple borer)*
 Hamilton, Nat. Shade Tree Conf. P. 9: 69, 1933; P. 10: 32-36, 1934.
- Xylotrechus angulithorax, buqueti**
 nGressitt, Pan-Pac. Ent. 9: 165-167, '33.
- Xylotrechus colonus**
 iGoldman, Trans. Amer. Ent. Soc. 59: 89-90, 1933.
 biHopping, Ann. Ent. Soc. Amer. 25: 543-544, 1932.
- Xylotrechus fuscus, insignis**
 biHopping, Ann. Ent. Soc. Amer. 25: 538, 541-542, 1932.
- Xylotrechus lengi, mormonus**
 biHopping, Ann. Ent. Soc. Amer. 25: 540-541, 1932.
- Xylotrechus nauticus** (Nautical borer)
 Essig & Hoskins, Cal. Ext. C. 87: 86, 1934.
 biHopping, Ann. Ent. Soc. Amer. 25: 535-536, 1932.
- Xylotrechus nitidus**
 biHopping, Ann. Ent. Soc. Amer. 25: 545-546, 1932.
- Xylotrechus nunemacheri**
 biHopping, Ann. Ent. Soc. Amer. 25: 542, 1932.
- Xylotrechus oblitteratus**
 biHopping, Ann. Ent. Soc. Amer. 25: 542-543, 1932.
 Spencer, B.C. Ent. Soc. P. 29: 26, 1932.
- Xylotrechus quadrimaculatus**
 Felt, J. Ec. Ent. 26: 977, 1933.
 biHopping, Ann. Ent. Soc. Amer. 25: 545, 1932.
 Knoll, Ent. News 45: 210, 1934.
- Xylotrechus quadripes—Parasites**
 i du Pasquier, Pac. Sci. Cong. 4, P. 4: 519-527, 1930.
- Xylotrechus sagittatus, schaefferi**
 biHopping, Ann. Ent. Soc. Amer. 25: 534-535, 540, 1932.
- Xylotrechus undulatus**
 biHopping, Ann. Ent. Soc. Amer. 25: 536-538, 1932.
- Xylotrechus yanoi**
 nGressitt, Pan-Pac. Ent. 9: 164-165, '33

Xysticus spp.

Bryant, *Psyche* 37: 132-140, 1930.

Bryant, *B. Mus. Comp. Zool.* 74(6): 178-180, 1933.

in Gertsch, *Amer. Mus. Nov.* 593: 19-29, 1933; Nov. 707: 2-10, 1934.

Yanguna blossomiaae

in Williams, *Trans. Amer. Ent. Soc.* 57: 288, 1931.

Yanguna tatei

in Bell, *Amer. Mus. Nov.* 555: 10, 1932.

Yellow cane aphid, see Siphia flava**Yellow currant worm, see Epochra canadensis****Yellow-edge, see Aglais antiopa****Yellow fever**

Bishopp, *N.J. Mos. Exterm. Assoc. P.* 19: 17-18, 1932.

Bishopp & Smith, *N.J. Mos. Exterm. Assoc. P.* 21: 40-41, 1934.

biCarter, *Yellow Fever* 1931, 308p.

Cumming, *U.S. Pub. Health R.* 46: 2361-2366, 1931.

bDavis, *Amer. J. Trop. Med.* 11: 31-42, 1931.

biDavis, *Ann. Ent. Soc. Amer.* 26: 491-495, 1933.

biDavis, *J. Parasit.* 19: 209-214, 1933.
De Vogel, *U.S. Pub. Health R.* 46: 2739-2740, 1931.

bHinman, *Amer. J. Trop. Med.* 13: 418-423, 1933.

bHoffman, *Assoc. Med. P.R. B.* 24: 650-653, 1932.

bHoskins, *J. Parasit.* 20: 299-311, 1934.

biKumm, *Amer. J. Hyg. Monog. Ser.* 12, 1931, 110p.

biRussell, *Rockefeller Found. R. f.* 1932: 31-66; *R. f.* 1933: 22-49.

bStrong & Shattuck, *Harv. Univ. Inst. Trop. Biol. Contrib.* 5: 223-226, '30.
Rockefeller Found. R. f. 1929: 44-51.
Science n.s. 75(1955 sup.): 7, 1932.
U.S. Pub. Health R. 45: 1457-1459, 1930.

Yellow fever—Inspection of ships

Tanner, *U.S. Pub. Health R.* 46: 2306-2320, 1931.

Yellow fever—Laboratory animals

bDavis, *Amer. J. Trop. Med.* 11: 113-125, 1931.

bRussell, *Rockefeller Found. R. f.* 1932: 58-63.

bSawyer & Lloyd, *J. Exp. Med.* 54: 533-555, 1931.

Sci. News Letter 21: 287-288, 1932.

Yellow fever—Vectors other than Aedes aegypti

bRussell, *Rockefeller Found. R. f.* 1932: 51-56.

Soper et al, *Amer. J. Hyg.* 18: 555-587, 1933.

Yellow fever and air travel

Science n.s. 73(1896 sup.): 14, 1931.

Sci. News Letter 23: 136, 1933.

Yellow fever commission—Congressional award

iAmer. *J. Pub. Health* 21: 1360-1362, 1931.

Yellow-fever mosquito, see Aedes aegypti*Yellow-headed leaf hopper, see Carneoccephala reticulata*****Yellow-headed spruce sawfly, see Pachy-nematus ocreatus Hgtn.****Yellow-marked mud-dauber, see Sceliphron cementarium*****Yellow mealworm, see Tenebrio molitor*****Yellow-necked caterpillar, see Datana ministra (Drury)****Yellow scale, see Chrysomphalus citrinus*****Yellow-striped armyworm, see Prodenia ornithogalli Guen.****Yellow top borer, see Chilo infuscatellus*****Yellow woolly bear, see Diacrisia virginica (F.)****Yersiniops newboldi**

in Hebard, *Trans. Amer. Ent. Soc.* 57: 115-116, 1931.

Yew pests

biLochhead & Farrell, *Can. J. Res.* 5: 665-672, 1931.

Yosemiteia

Mortensen, *Cactus & Succul. Soc. Amer. J.* 1: 173, 1930.

Ypsolophus, see Dichomeris***Yucca moth, see Tegeticula yuccasella****Zabrus gibbus**

Howard, *Hist. of Appl'd Ent.*: 276, '30.

Zacatacristis scudderii

nHebard, *Trans. Amer. Ent. Soc.* 58: 295, 1932.

- Zacosmia maculata*
biHicks, Univ. Col. Studies 21: 265-266, 1934.
- Zadiprion*
Middleton, P. Ent. Soc. Wash. 33: 165-170, 1931.
- Zambesopsis*
nTownsend, J. N.Y. Ent. Soc. 40: 451, 1932.
- Zarhipis picivertis*
Beatty, Yosemite Nature Notes 13: 96, 1934.
- Zatropis tortricidis*
Flanders, Cal. Agr. Mo. B. 19: 418, '30.
- **Zebra caterpillar*, see *Ceramica picta*
- Zeihs geniculatus*
Howes, Nat. Hist. 33(1): 96, 1933.
- Zenillia*
Aldrich, PUSNM 81(9): 19-21, 1932.
- Zenillia blanda*
iBruner, Rev. de Agr. Cuba 14(22): 96, 1934.
biSellers, Ann. Ent. Soc. Amer. 23: 569-576, 1930.
- Zenillia caesar*
Noble, USDA C 248: 3, 1932.
- Zenillia libatrix*
Brown, USDA C 176: 15, 1931.
biDowden, J. Agr. Res. 48: 97-114, 1934.
- Zenillia palpalis*
inAldrich, PUSNM 81(9): 20-21, 1932.
- Zenillia roseanae*
Hergula, Internat. Corn Borer Invest. Sci. R. 3: 128-129, 1930.
- Zenillia virilis*
biSellers, Ann. Ent. Soc. Amer. 23: 569-576, 1930.
- Zetekomyia*
inCurran, Fam. & Genera of North Amer. Diptera: 281-284, 1934.
- Zetes australis pembertoni* 70-73, *bryani* 74-75, *fordi* 73-74
inJacot, Bernice P. Bishop Mus. B. 121, '34.
- Zethus bahamensis*
nBequaert, Ann. Ent. Soc. Amer. 24: 765-767, 1931.
- Zeugenia glutae*
nMarshall, Hawaiian Ent. Soc. P. 8: 237, 1933.
- Zeugophora scutellaris*
Twinn, Ent. Soc. Ont. R. 64: 76-77, 1933; R. 65: 126, 1934.
- Zeuzera pyrina* (Leopard moth)*
iApp, Amer. Agr. 131(19): 6, 1934.
iBritton, Conn. B. 344: 107, 1933.
Driggers, N.J. R. 50: 146-147, 1929.
Felt, Bartlett Tree Res. Lab. Radio Tree Talks III: 10, 1930.
Felt, J. Ec. Ent. 26: 48, 1933.
[Hamilton] Amer. Hort. 4(5): 9, 1933.
Hamilton, Nat. Shade Tree Conf. P. 9: 70, 1933.
Headlee, N.J. Dept. Ent. R. f. 1929: 146-147, 1930; R. f. 1930: 144-148, 1931.
Headlee, N.J. R. 52: 187, 1931; R. 53-54: 39, 1933.
Linder, Mo. Bot. Gard. 19: 67, '31.
Lipman, N.J. R. 55: 43, 1934.
biSoraci, N.J. Dept. Agr. C. 243: 5-7, 1934.
- Zicrona caerulea*
biBaker, Can. J. Res. 4: 210-211, 1931.
- Zodion lovetti*
nVan Duzee, Ann. Ent. Soc. Amer. 27: 323, 1934.
- Zonalia*
nCurran, Fam. & Genera of North Amer. Diptera: 464, 1934.
- Zonitoides arboreus*
Holloway, Facts about Sugar 27: 65, 1932.
- Zonosemata, Z. electa*
binBenjamin, USDA TB 401: 17-20, 1934.
- Zoology—Nomenclature**
Cockerell et al, Ent. News 41: 207-210, 1930.
Cresson, Ent. News 45: 122-126, 217, 1934.
bField, Can. Ent. 66: 253-257, 1934.
iGunder, Bklyn. Ent. Soc. B. 27: 165-167, 1932.
McAtee, P. Ent. Soc. Wash. 32: 65-66, 1930.
Metcalf, Science n.s. 72: 318-319, 1930.
Robertson, Amer. Nat. 67: 53-61, 1933.
Van Duzee, Pan-Pac. Ent. 6: 166, 1930; 9: 109, 1933.
Wade, P. Ent. Soc. Wash. 33: 204-206, 1931.
- Zoology—Reading program**
Cutright, Penn. Acad. Sci. P. 5: 132-139, 1931.

Zootermopsis

binEmerson, Cal. Univ. Pub. Ent. 6(6):
182-187, 1933.

Zootermopsis—Protozoan parasites

biLund, Cal. Univ. Pub. Zool. 36: 81-96,
1930.

Zootermopsis—U. S., Western

iCastle, Kofoid, Termites & Termite
Control: 264-282, 1934.

Zootermopsis angusticollis

biAndrew, Cal. Univ. Pub. Zool. 33: 449-
470, 1930.

Cook & Scott, Biol. B. 53: 505-512, '32.

bCook & Scott, J. Cell. & Comp. Physiol.
4: 95-110, 1933.

iDuncan, Cal. St. Teachers Coll. Insects:
45, 1932.

iLight, Cal. C. 318: 19-21, 1930.

biNoyes, Cal. Univ. Pub. Zool. 33: 259-
286, 1930.

biSumner, Cal. Univ. Pub. Ent. 6: 200-
211, 1933.

Zootermopsis angusticollis and fungi

biHendee, Cal. Univ. Pub. Zool. 39: 111-
113, 1933.

Zootermopsis spp.

Beall, B.C. Ent. Soc. P. 28: 33-35,
1931.

biEmerson, Cal. Univ. Pub. Ent. 6:
187-191, 1933.

biSumner, Cal. Univ. Pub. Ent. 6: 197-
230, 1933.

Zopherodes sanctaehelenae

nBlaisdell, Pan-Pac. Ent. 7: 111-114,
1931.

**Zophodia grossulariae (Riley) (Gooseberry
fruitworm)***

Britton, Conn. B. 344: 111, 1933.

Pack, J. Ec. Ent. 23: 376, 1930.

iPack, Utah B. 216: 3-12, 1930.

Pack & Dowdle, Utah Acad. Sci. P. 7:
59, 1930.

Zoroehrus oblongus

nFleutiaux, Hawaiian Ent. Soc. P. 8:
476, 1934.

Zorotypus swezeyi

Swezey, Hawaiian Ent. Soc. P. 7: 362,
387-388, 1931.

Zosteromyia braueri

nTownsend, J. N.Y. Ent. Soc. 40: 457-
458, 1932.

Zosteromyiopsis

nTownsend, J. N.Y. Ent. Soc. 40: 456-
457, 1932.

Zuanalia

nCurran, Fam. & Genera of North Amer.
Diptera: 468, 1934.

Zuluia lithostrota

inRehn, P. Acad. Nat. Sci. Phila. 83:
383-385, 1931.

**Zygogramma exclamationis (F.) (Sun-
flower beetle)***

iMunro & Riddle, N.Dak. C. 42 rev.: 57,
1933.

Zygoptera—Key

Klots, N.Y. Acad. Sci. Sci. Surv. P.R.
14: 74, 1932.

Zylobus, Z. lobulatus

nBarber, Ent. Amer. n.s. 10: 230-232,
1930.

